THE CHEMIST AND DRUGGIST, NOVEMBER 11, 1922.

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NOVEMBER 11, 1922.

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Vol. XCVII.



HOUSE FOR ALL THE BEST PHARMACEUTICAL **PRODUCTS**

Proprietors of the "Silver Churn" Dairy Preparations.

OLDFIELD, PATTINSON & Co. TELEGRAMS: "OPIUM." MANCHESTER.

مرائع المائل الم

which will further increase the popularity of "Torch" Brand Extract of Malt with Cod Liver Oil

a distinct improvement in packing Malt and Oil.

The new cap is absolutely air-tight, yet removed by one-eighth of a turn and replaced just as easily.

Your customers will appreciate the advantages of this clean, handy and effective packing.

P.A.T.A. PRICES.

WHOLESALE. RETAIL. WHOLESALE. r doz. ... 1/1 each. 2-lb. size ... 22/- per doz. ... 2/11 each. ,, ... 1/7 ,, 4-lb. ,, ... 41/6 ,, ... 5/6 ,, 7-lb. size ... 70/- per doz. ... 9/6 each. -lb. size ... 8/- per doz. ... 1/1 each. lb. ,, ... 12/3 ,, ... 1/7 ,,

Special terms for season's requirements.

ALLEN & HANBURY'S BETHNAL GREEN, E.2.





CHRISTMAS IS COMING

and already folk are saving up their money to spend at your establishment if you will let them do so. If you haven't got the goods when the time comes naturally they will go somewhere else, and you will get into your head the mistaken impression that the old customs are going to the dogs, whereas it's to the man round the corner that the custom has gone.

YOU CANNOT BE SURE

of getting the goods at the last moment because May, Roberts, as well as all other wholesalers, so calculate their stocks that they shall be cleared before that time comes. It's only the articles which are in the least demand that remain at the disposal of the eleventh-hour buyer.

MAY, ROBERTS' XMAS LIST

is fully illustrated and contains an exhaustive selection of Fancy Perfumery, Sachets, Leather Goods, Hair Brushes, Stationery, Tobacco, Cigars, Cigarettes, Manicure Sets, Sprays, Photographic Goods, &c., &c., and they will be happy to forward you a copy on receipt of a postcard.

IT'S THE EARLY BIRD

that gets there every time, and the Chemist with the first window display will establish the psychological association which will bring the customer to your pharmacy when the buying mood seizes him. May, Roberts have some attractive Christmas Showcards which will assist you in giving a Yuletide atmosphere to your window.

MAY, ROBERTS & CO., LTD.

7/13, CLERKENWELL ROAD, LONDON, E.C.1.

And at Dublin, Liverpool and Plymouth.



SEND TO-DAY AND SECURE YOUR SPECIAL 21st BIRTHDAY BONUS PARCEL AS BELOW.

REGULAR PRICES & TERMS.

POCKET SIZE FAMILY SIZE 10½d. Per doz. 8/10 2/- Per doz. 20/22 DOCTORS' & HOSPITAL SIZE

Per doz 30/31/2

5 per cent. at 30 days. Thereafter due strictly net. Carriage Paid on £3 and up.

SPECIAL 21st BIRTHDAY **Extra Profit BONUS Parcels**

"A" Parcel comprises-

1 doz. Sm. 8/10 $\frac{1}{2}$ -doz. Med. 10/1 $\frac{1}{2}$ 1-doz. Lr. 7/7 together (less 5%) cost 25/2

BONUS: \(\frac{1}{4}\)-doz. Med. selling at 6/-

Thus profit $\mathbf{12/3}\frac{1}{2}$ (over $48\frac{1}{2}\%$) on outlay de

"B" Bonus Parcel exactly double "A"

All Bonus Parcels Carriage Paid.

BOOMED

is 21 years old this Oct., 1922. To celebrate that we will resume press advertising and offer Special Profit "21st Birthday Bonus Parcels! to the trade, as detailed opposite.

safest Proprietaries chemists handle. There is hardly a chemist's shop in the British Isles that has not in stock to-day.

IT IS 8 YEARS now since had any Press Advertising, and yet look at its steady continuous sales. Many a big Proprietary thus lacking advertising would die in a year;

BUT NOT Its users think too much of it for that.

NOW WE WILL BOOM IT!

SEND TO-DAY for your "A," "B," or "C"
Special "21st Birthday Extra Profit Bonus
Parcel," as detailed opposite.

COLLY

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not some

IS ONE OF THE ADVERTISE MENTS ALREADY ORDERED TO APPEAR IN LEADING PAPERS NEARLY

(80.000,000 TIMES) DURING THE NEXT 3 MONTHS

> J. E. GARRATT 96 Southwark St., London, S.E.1.



Offer! Special VACUUM FLASKS

GUARANTEED

15/- per dozen, 5%, one month.

Case of 250 at 12/9 per doz. nett, on own delivery, or 13/- per doz. carriage paid in country. nett Free cases.

B.P. OINTMENTS & POMADES

In nice decorated $\frac{1}{2}$ ounce tins.

BORIC OINTMENT. ZINC OINTMENT. BASILICON OINTMENT. SULPHUR OINTMENT.

COLD CREAM. CAMPHOR ICE. COCOANUT OIL. LANOLINE.

VASELINE.

at 10/- per gross nett.

SUTTON

Druggists' Sundries, London, Limited, 76, Chiswell Street, London, E.C.1

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Reduction in price of

To Chemists from Nov. 8th. To the Public from Dec. 1st.

All the Mellin's Food Preparations are fully protected under the Proprietary Articles Trade Association conditions.

MELLIN'S FOOD (Starch free)—

The Fresh Milk Modifier for use from birth upwards. Minimum Prices reduced from

(Small size) 1/9 to 1/6 Trade Price 14/6 doz. Trade Price 26/4 doz. less $2\frac{1}{2}\%$ cash

(Large size) 3/- to 2/9

less $2\frac{1}{2}\%$ cash

MELLIN'S LACTO (Starch free)—

A full Diet for Infants and Adults, for use where fresh milk falls under suspicion.

Minimum Price reduced from

3/9 to 2/9 Trade Price 26/4 doz., less $2\frac{1}{2}\%$ cash

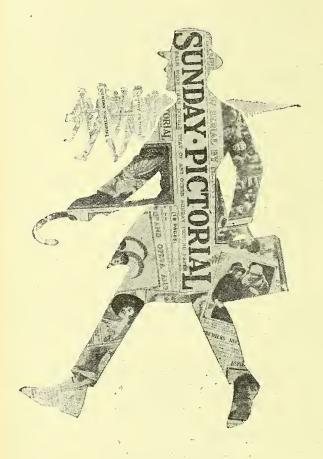
MELLIN'S FOOD BISCUITS

A complete Food for the use of Children and Adults. Minimum Price reduced from

3/6 to 2/9 Trade Price 26/4 doz., less $2\frac{1}{2}\%$ cash

Attractive advertising material for exhibition or distribution, free and carriage paid, with particulars of special terms for Window Displays, on application to

MELLIN'S FOOD LIMITED, LONDON, S.E.15.



Considerably over 2,000,000 Salesmen waiting to sell your goods—

Every copy of the "Sunday Pictorial" is a real Salesman, with an appointment with at least one family of potential buyers. Further, this printed Salesman enjoys a great advantage over the human one inasmuch as he is sure of the entrée directly into the home of the prospective customer, and sure also of a favourable reception.

Why not put these two million Salesmen to work to sell your goods? They will go into the homes of considerably over two million better-class people who comprise practically the whole of the worth-while classes. These people hold sound and responsible positions in life and form the market for the bulk of the nation's good-class merchandise.

You standardise your goods—why not standardise your advertising results by using the paper which will give you worth-while results from worth-while people continuously? Get these 2,000,000 Salesmen to work for you now.

NET SALES CONSIDERABLY OVER 2,000,000 COPIES WEEKLY A Campaign in Itself:

Specimen Copy, Rates and Full Particulars will be sent on populication to SIDNEY D. NICHOLLS, ADVERTISEMENT MANAGER, 23.29 BOUVERISE St.

23-29, Bouverie St., London. E.C.4,



IND Allen & Hanburys, Ld. (Ext. of Malt Cover 5 ments) Association of Manfg. Chemists Col. Supp 26 Austin, J., Ld. (Cardboard Boxes) ... Ayrton, Sannders & Co., Ld. (Wholesale Druggists) sale Druggists) 15 Baker & Roberts (Chemists' Valuers) Bandoeng Quinine Factories viii Barker, R., & Son, Ld. (Infants' Preservatives) Sarker, R. W., & Co. Text Barkola Co., Ld. (Proprietary) xiv Battle, Hayward & Bower (Disinfectants) viii Battle, Hayward & Bower (Disinfectants) xiv Beecham, Thomas (Pills) xiv Bengue, Dr., & Co. xiv Berdoe & Fish Col. Supp. Berdoe & Fish Col. Supp. Berton, Arthur, Ld. (Cotton Wool, & Co., Ld. (Perfume Tubes) 1, Ld. (Litmopyrine) 18 Bishop, A., Ld. (Litmopyrine) 18 Bishop, J. D., & Co., Ld. (Perfume Tubes) 24 Blyton, Astley & Co. (Menthells) xviii Bourjois, A., & Cie, Ld. (Face Powders) 4, & Co., Ld. (Chemicals) xiv Bramwell, E., & Son, Ld. (Chemicals) xiv Bramwell, E., & Son, Ld. (Chemicals) 18 British Diamait Co. (Malt Extract) 18 British Drug Houses, Ld. (Duogen) Cover British Electrical Development Asso-cals) Burrough, J., Ld.. (Absolute Alcohol) Text Burroughs, Wellcome & Co. (Hazeline Snow) Bu.t, Boulton & Haywood, Ld. ("Ialine" Preparations)

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PREPARATIONS

EXTRACTS.

TINCTURES,

BELLADONNA ERGOT

TARAXACUM GENTIAN

CASCA A NUX VOMICA

RESINS

JALAP PODOPHYLLUM SCAMMONY

"STAFFALLENS"

FERRI et QUININÆ CIT. FERRI et AMMON. CIT.

> UNG. HYDRARG.

SAMPLES AND PRICES ON APPLICATION.

Distillery: LONG MELFORD, STAFFORD ALLEN & SONS, LTD. Packing Warehouse: ARDLEIGH GREEN, SUFFOLK. COWPER STREET, FINSBURY, ESSEX.

Telephone: Clerkenwell 2100 (4 lines).

LONDON, E.C. 2.

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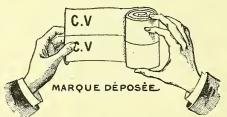
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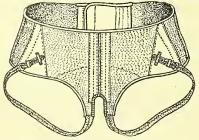
SURGICAL APPLIANCE MANUFACTURERS

SURGICAL APPLIANCE MANUFACTURERS

CROWN ROAD WORKS, TWICKENHAM

have the honour to announce to the Trade that they have acquired the Sole Agency for the United Kingdom of Great

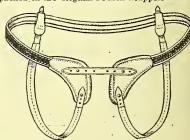
Britain, Ireland and the British Dominions of The Celebrated Crepe
practically disappeared from this country during) the Great War,
tit is unuecessary to speak of their high quality and reputation, or to emphasize their superior mentis. We are carrying
large stocks and shall be pleased to forward prices and samples on application, packed in the original French wrappers and cartons.



MADE IN TWO QUALITIES ONLY. BANDAGES: Nearest English width, 2, 2½, 3½ inches, Width in Centimeters, 4-5, 6-7, 9-10,

ABDOMINAL BINDERS (Only made in First Quality): 6, 8, 12 inches, Width in Centimeters, 14-15, 18-20, 28-30.

1st Quality-RED LINE. 2nd Quality-BLUE LINE,



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BIRMO

The Famous Swiss Natural Bitter (Aperient)

Water of Birmenstorf.

DR. CONSTANTIN JAMES, Member of the Academy of Medicine and of several scientific societies, Paris, said about the Birmenstorf Waters:—

"This is in every respect one of the most remarkable chemical compounds, which is consonant with the curative power of this natural mineral water."

In fact, eminent Medical Practitioners, University Professors, Specialists, Hospitals, and University Clinics have used and prescribed BIRMO Waters in preference to others, and because its isotonic salt solution, its osmot cal pressure and freezing point is similar to that of the Human Blood, and thus can never injure the intestinal mucous membrane of the body. This is why BIRMO Waters are going ahead of any other natural Mineral Water of this kind. Feverish conditions and inflammatory disorders are not contra-indications.

The large and ever-increasing demand for BIRMO Waters in Great Britain and the United States is proof of its value and its curative power. In ordering, ask for our Birmo Booklet, giving all necessary information about the Birmenstorf Waters as seen from the standpoint of the Medical Practitioner.

MAKE BIRMO A SELLING FORCE FOR YOU. IT PAYS!

It leaves you a Large Profit, which no other Natural Medicinal Water, whatever its name might be, can do or has ever offered you before.

12/- per dozen, or 48/- per case of 50. Retail Price, 1/6, that means

50% OF PROFIT.

ORDER NOW. IT PAYS TO SELL BIRMO!

BIRMO (SWISS NATURAL) 9, Noel Street, LONDON, W.1.

Our invitation is open

definitely promised the Exhibitors at the

MANCHESTER CHEMISTS'

November 20th to 25th

we are posting every Chemist and Druggist in the United Kingdom a cordial invitation and two free tickets. In addition same to every Doctor and Dentist and to all Infirmaries, Hospitals, Nursing Homes within at least a ten miles radius of Manchester. To those who by unforeseen circumstances do not receive these, we do express the wish that this should not deter them from paying such an important Exhibition a visit, as this Advertisement or their Professional Card will secure their admittance. Card will secure their admittance.

The exhibits represent the largest number of firms ever got together under one roof and, mark you, all on the one level, and judging by the local enthusiasm and applications for batches of Tickets from Associations in all parts, it will be the most popular Exhibition ever held.

The Public are being admitted as an experiment at 1/- including Tax, and at great expense the Band of H.M. Royal Marines has been engaged. Practical Window Dressing Competition, Manchester Pharmaceutical Associations' Scientific Display, Various Meetings, Re-Unions, and a Concert in aid of the Benevolent Fund will all tend to keep you interested.

Organisers: PROVINCIAL EXHIBITIONS, LIMITED. City Hall, MANCHESTER.

Manchester Chemists' Exhibition.

WE beg to inform our many friends that we are showing at the forthcoming Chemists' Exhibition which is to be held at the City Hall, Deansgate, Manchester, from NOVEMBER 20th to NOVEMBER 25th inclusive.

We shall be pleased to welcome all intending visitors at STAND 28, where all our latest goods will be displayed.

Medicinal Gelatine Capsules, Glycerine Suppositories, Perfumery, Soaps, Druggists' Sundries.

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SALICYLATES **VANILLIN**

and other fine chemicals.

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A Winter Line

that yields satisfactory profit

CAPSOLIN

Every pharmacist has many calls for a stimulating counter-irritant, and in a great many more cases a preparation of this class may be successfully suggested as an auxiliary. Capsolin contains oleoresin of capsicum, oil of turpentine, camphor and croton oil, and the product is always ready for use.

- ¶ Another favourable feature of Capsolin is that its warming effect is immediately felt; this induces confidence.
- The tube is readily portable, and there is no bottle to be broken or knocked over; this is a point that commends Capsolin to all players of games. Capsolin should be brought to the notice of all football, tennis, harriers', cyclists', and other clubs, for restoring the tone of the muscles after exercise.
- ¶ On page 23 of the October issue of "Pharmacal Notes" is a note from the Secretary of one of the League Clubs.
- Tapsolin is issued in 1-dozen display boxes.

M.R.P. 1/9. M.P.W. 14/- net per dozen.

Best terms on request.



PARKE, DAVIS & CO. 50-54 Beak Street, LONDON, W.1.

Laboratories - - Hounslow, Middlesex.

Maws



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BABY POWDER.

Sell "Parex" and Secure Profits.

During the past year the popularity of "Parex" Baby Powder has increased by leaps and bounds. There are many reasons for this.

First, "Parex" Baby Powder is an excellent powder of proved value and efficiency. It is rapidly absorbent, smooth, soothing and delicately perfumed.



Second, it is ideally packed and most attractively presented. The sprinkler tin is the essence of cleanliness, and the decoration is original, attractive and in perfect taste. A very striking show-card is supplied which is certain to bring good business, and each dozen tins is packed in a tastefully decorated outer ready for immediate display.

Third, "Parex" Baby Powder, from the chemists' point of view, is the most desirable proposition in its own class on the market to-day. It costs you 6s. 9d. less 5% and retails at 1s., thus making a profit of 87% on cost.

"Parex" Baby Powder brings repeat orders, and builds goodwill

When you sell "Parex" you keep pharmacy generally, and you help your own business to prosper, because "Parex" can only be retailed by pharmacists.

Telephone; City 7 Private Branch Exchange Telegrams: Eleven Cent London

S. Maw, Son & Sons. Ltd.
Aldersgate St., London,

and Barnet.

Cables: Eleven London

Code A.B.C 4% 5% Edition



OINTMENT
Retails at
1/3
PER BOX

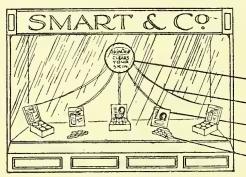
DR BUCHANAN'S



SOAP Retails at 9P PER TABLET

WILL INCREASE YOUR SALES

To our old established and popular remedy, Dr Buchanan's Skin-Clear Ointment we have added a companion in Dr. Buchanan's Skin-Clear Soap. These two lines are together being re-marketed in new modern and attractive get-up including designs for Cartons, Showcards and Window Displays. In addition, we contemplate launching an extensive advertising campaign as soon as retailers obtain supplies. We honestly believe Dr. Buchanan's Skin-Clear to be one of the most wonderful remedies for skin diseases on the market, and it finds a ready sale with an appreciative public. Sold under P.A.T.A. regulations at full face value.



FREE WINDOW DISPLAY

We illustrate a window show of Dr. Buchanan's Skin-Clear Ointment and Soap which is supplied FREE to all retailers stocking Skin-Clear. Can be fitted to Window space of any size. Your profit begins with the Display.

- Centre Disc 15 inches diameter fitted to centre of window pane about eye level.
- 2. Ribbons running from centre of back of Disc to display.
- 3. Showcards of (a) Ointment (b) Soap.
- 4. Dummy boxes of (a) Ointment (b) Soap.
- 5. Dummy cartons.

The OINTMENT



This has already had a wonderful sale and is become increasingly popular with the public as a positive cure for all skin and blood diseases. You can easily sell a gross per week.

A new companion remedy for use with the ointment and as a safeguard against all skin eruptions. It will prove a quick seller and will show a good profit for you.





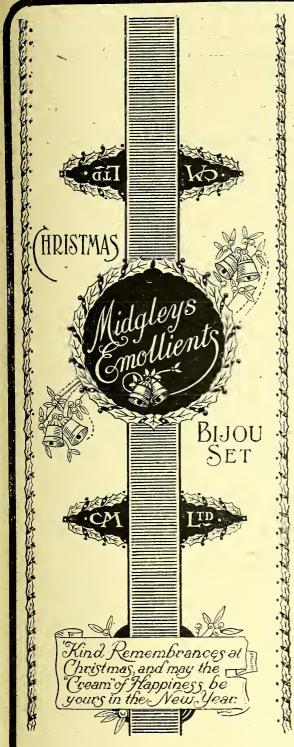
TRADE TERMS

1/3 (P.A.T.A. 1/3 nett) SKIN-CLEAR OINTMENT 9d. (P.A.T.A. 9d. nett) SKIN-CLEAR SOAP 10/- doz, 6/- ,,

Send your order for Display and Particulars NOW

POTTER & CLARKE LTD

Manufacturing Chemists.
60-64, ARTILLERY LANE, LONDON E. I.



A N illustration of the beautiful Xmas wrapper executed in colours in which Midgley's Bijou Sets

containing

Midgley's Emollient Cream
Emollient Cream Soap and
Emollient Shaving Stick
or Shampoo Powder

are sold during the festive season.

The popular retail price 1/- makes them a tip-top line for Xmas Sales.

Shew them in the window and they sell freely at sight.

If you have any over after Xmas tear the Special Xmas Wrapper off and sell as usual.

8/9 dozen.

Carriage paid on 8 dozen or with other goods.

Special terms to Chemists who elect to make this a Xmas Gift from themselves to their Customers.

GEORGE HOLLIDAY & CO., Ltd., Manchester

Wholesale Distributors: EVANS SONS LESCHER & WEBB Ltd., Liverpool & London.

Reproduction of Window Bill issued to Purchasers of the "A1" COD LIVER OIL.

COD LIVER OIL and SUNLIGHT

YOU cannot have SUNSHINE all through the Winter, but you can have "THE BEST SUBSTITUTE."

SOUTHALLS' "A1" COD LIVER OIL

Read what a leading Medical Specialist says:

as freely and fully as may

The best specific substitute for sunlight in the promotion of growth and the prevention of rickets and tuberculosis is undoubtedly cod liver oil. This has been amply proved this year on both sides of the Atlantic. I do not regard cod liver oil as a necessary food; but if and when there is reason to take special steps of a medicinal character for children's nutrition cod liver oil is facile princeps. It is the form to oil, are not so.

With Acknowledgment to the "Daily News."

SOUTHALL BROS. & BARCLAY, LIMITED BIRMINGHAM,

José Serrano Wines

Brought to maturity by long storage in the wood—and now worthy of being brought to the Connoisseur.

Your Christmas Wine List is a matter for very careful selection. It will make friends for you, and friends for your friends if you will only let it. An ad hoc(k) wine passed over your counter will repudiate your good name and bring consternation and loss.

José Serrano is an old friend, a mature friend of a ripe old age. It acts as a friend and claims friendship—it exudes goodwill and makes goodwill. A jolly good fellow which drinks a toast to itself every time the glass is filled.

José Serrano Port Wine

In bottles, 6 to gallon 1-3 doz. 6 doz. 1 gross. 60/- 59/- 58/-

José Serrano Sherry Wine

In bottles, 6 to gallon 59/~ 58/~ 57/~

Favour us and serve yourself by ordering Xmas Wines early.

AYRTON
SAUNDERS
& CO. LTD

Wine Importers
LIVERPOOL, ENG.



The "Cold" Season is approaching

WE HAVE A NOVEL REMEDY IN

PINE CATARRH CURE

For Inhalation from the Handkerchief or Pillow.

Packed in attractive Cartons at 7/6 DOZEN.

SHOWCARDS SUPPLIED.

MAY WE SEND YOU A SAMPLE?

YOU HAVE NO DOUBT NOTICED IN THE PRESS THE FOLLOWING ADVERTISEMENT

"PELDO" YOUR HANDS FIRST

Perhaps some of your customers have enquired from you about it?

If you do not already know "Peldo" we shall be pleased to send you a Trial Tube post free, so that you may learn all about it; you will then have a very interesting subject to talk about to your customers.

RETAIL PRICE

1/6 EACH

1/8 EACH

1/8 EACH

1/6 EACH

1/6 FIRST

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.



BISHOP'S SOLUBLE ASPIRIN IN TABLETS

Registered Name:

LITMOPYRINE

Each tablet contains 5 grains of Lithium Acetyl-Salicylate.

LITMOPYRINE TABLETS

In bottles of 40 at 22/6 per doz. subj. M.R., 2/6

In bottles of 100 at 45/- per doz, subj. M.R., 5/-

LITMOPYRINE is also supplied as a POWDER

for dispensing, and as a

GRANULAR EFFERVESCENT

5 grains in 60 grains.

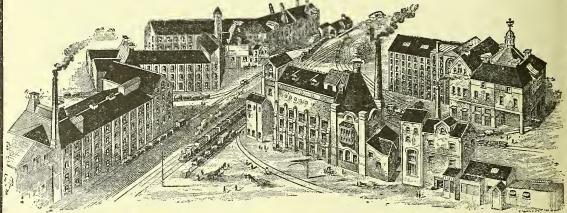
And in the following combinations:

LITMOPYRINE and CAFFEINE in TABLET FORM and GRANULAR EFFERVESCENT LITMOPYRINE, grains 5, with CAFFEINE ALKALOID, grain ½ in 60 grains.

ALFRED BISHOP, LTD., 48, Spelman Street, LONDON, E.1.

MALT EXT. WITH COD LIVER OIL

Direct from the Actual Manufacturers.



THE BRITISH DIAMALT COMPANY'S WORKS AT SAWBRIDGEWORTH.

City Office-9 Holborn Viaduct, London, E.C. Northern Office-Arcade Bldgs., 85 Lord St., Liverpool

Lorimer-Marshall, Ltd., for PACKED GOODS

Cod Liver Oil Emulsion
Children's Cough Mixture
Children's Tonic
Balsam of Honey

Honey & Lemon Linctus

Lung Tonic Tonic Elixir

Meat & Malt Wine

AT KEENLY COMPETITIVE PRICES.

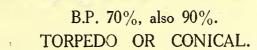
LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C. 3

Works Telephone: New X 2119.

Telegrams: "Lorimarsco, Bilgate, London."

KIRBY'S

Glycerine Suppositories.



PACKED IN GOLD LACQUERED TINS.

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INFANT	• •	5/6	PER
CHILDREN	• •	7/~	DO7
ADULT		10/-	DUZ.
EXTRA LARGE	• •	5/6 7/- 10/- 14/6	TINS.
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Name and Address on 3 Dozen.

H. & T. KIRBY & Co., Ltd.,
WILLESDEN GREEN,
LONDON———N.W.2

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ROEPHON ROERMOND, HOLLAND.

Manufacturers of

Base Perfumery Products and Flower Oils.

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MUSK AMBRETTE c.p. 100%

MUSK KETONE c.p. 100°/_°

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c.p. 100°/

OLEUM-MUSK art.

generally regarded as the STANDARD.

Sole Representative for the U.K.:

ALFRED PAUL WHITE, 5 Water Lane,

Gt. Tower Street, LONDON, E.C. 3.

out of L



All a Dentifrice should be—and more



white and clean, the mouth wholesome, the gums firm and healthy. It is smooth and contains no grit to injure the enamel.

But it is also more than a dentifrice.

Used consistently and in time, Forhan's

For the Gums prevents Pyorrhea, and in cases where the disease is already active,

As a dentifrice Forhan's For the Gums conforms to the highest standards of

modern oral hygiene. It keeps teeth

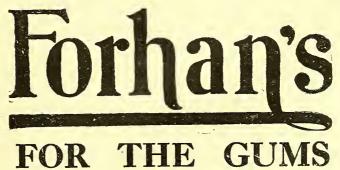


THOS. CHRISTY & CO. 4-12 Old Swan Lane, London, E.C. 4.

astringent ingredients make it a

valuable remedial agent.

Forhan's Advertising is powerful support for the retailer. It is maintained in equal volume every month in the year and every year.



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Parfumerie. Paris Bourjois Poudre de Riz de Java

No. 45 10/- per doz.

P.A.T.A. 1/3 per box.



No. 495

7/- per doz.

P.A.T.A. $10\frac{1}{2}$ d. per box.

No. 45.

Made in the following tints; RACHEL, NATURELLE, BLANCHE, ROSE and BRUNETTE,

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C.4.

Also Manufacturers of the celebrated "ASHES OF ROSES." No. 4. 15/- per doz.; P.A.T.A. 1/9 per box

WHY NOT MAKE YOUR OWN PER-**FUMES & TOILET** PREPARATIONS FOR CHRISTMAS?

It's quite easy with



Concentrated Essences & Compounds

EVERY Chemist who desires to adopt the easiest and most profitable way of making up Toilet Waters, Hair Washes, Lotions, Brilliantines, Perfumes, etc., should use the Preemo Products. These essences are expressly made for Perfumes and Toilet Preparation manufacture, and are ready for immediate use. All Distilling, Filteriug, Blending, etc., are dispensed with, and they are readily soluble in Water, Spirit and Oil. No other essences are so simple to use, so casy to mix, or give such delightful and economical results. You take no risks, therefore, when you use Preemo Essences; the results are certain, and satisfaction is always sure both to you and your customers.

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10/6 post free. Contains over 100 useful and valuable recipes.

PREEMO CONCENTRE & ESSENTIAL OIL CO.,

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JAKSON'S PEPPERMINT, LAVENDER & CAMOMILE OILS

are the BEST.

Produced and Prepared by

THE LARGEST GROWERS & DISTILLERS IN ENGLAND.

Distillery :

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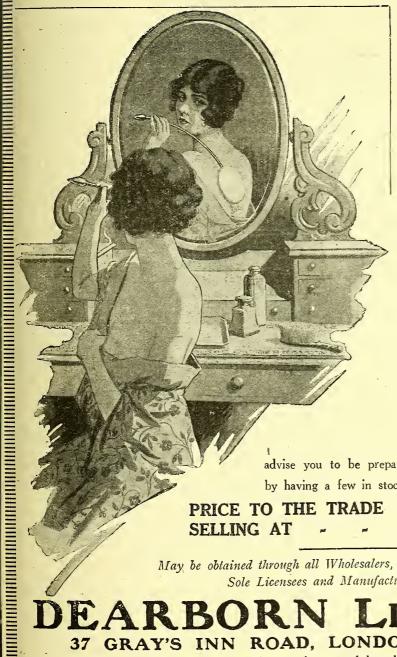
AGENTS for the U.K.:

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A STRIKING NOVELTY BY DEARBORN LIMITED.

The Ambedia Back Puff

PATENT No. 182060.



THIS useful appliance has been designed to fill a

Long-felt Want.

will welcome Ladies and appreciate a Puff by the use of which they are enabled to dispense with the assistance of a maid. and powder their backs themselves.

We are advertising extensively in the Daily and Leading Press Ladies' Journals, and

advise you to be prepared to meet the demand by having a few in stock.

PRICE TO THE TRADE 11/3 Nett. 15/- P.A.T.A. SELLING AT

May be obtained through all Wholesalers, or direct from the Sole Licensees and Manufacturers:

GRAY'S INN ROAD, LONDON, W.C.1.

Patents pending in all the principal countries of the world.





Special Bonus scheme for Window & Counter Display

(Open till 10th Dec.)

3 doz. order
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26/-

Order through your Wholesale Houses

BONUS QUANTITY will be sent direct from Stewart, Goodall & Dunlop, Ltd., with Window Cards, etc.

Has Solved the Grey Hair Problem

NUCTONE is the discovery of an eminent Hair Specialist. Restores the colour gradually, permanently, safely. Guaranteed free from any injurious ingredients such as sulphur or lead.

Adds greatly to Saloon Returns

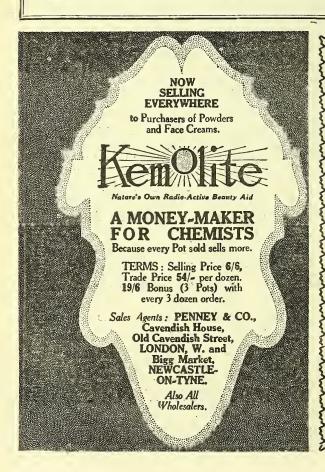
NUCTONE Grey Hair Treatment is proving a lucrative addition to the business of every Hairdresser who has adopted it. Send for free booklet, which contains full details and instructions.

Retail Price 6/6 per Bottle

Manufactured by-

Stewart. Goodall & Dunlop, Ltd. 4 Dering Street, LONDON, W.1

Stocked by Leading Wholesale Houses.





in any quantity from 10 gross upwards.

We invite your enquiries for these, also for GLASS BOTTLES and POTS in any colour or design.

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22 & 23 Great Tower Street, LONDON, E.C.3.

Telephone: Minories 2710-2711.

WHOLESALE ONLY.

PARFUMS D'ORSAY



E have got the most attractive and beautifully packed perfumery in the world. In addition, the contents are of the highest standard, backed by a repute of a very long standing \otimes \otimes \otimes \otimes

THESE ARE THE LINES THAT SHOULD APPEAL TO YOU FOR CHRISTMAS DISPLAY.

Prices are as reasonable as can be expected for such \otimes \otimes \otimes \otimes high-class perfumery. \otimes \otimes \otimes

IN WHICHEVER DISTRICT YOU ARE DROP US A LINE, AND WE SHALL HAVE PLEASURE IN SENDING OUR REPRESENTATIVE ROUND.

British Agents: S. Namias Sons, 45 Beech Street, Barbican London, E.C. 1 Irish Agents: W. J. Rankin & Son, 11 Waring Street, Belfast. Clerkenwell 2944



Don't risk your customer "coming back" for his first bottle of Hair-Root-Life—have it in stock. An intensive advertising campaign has already started and the demand will be good and steady. Your Wholesaler has backed this forecast with a substantial order. Retail 1/3, 2/9, 5/-, and shows you big profits.

Manufacturers:-

J. Copeland & Co., 65 Devonshire St., Manchester.

COMBS

These superior Moulded Combs, with Burr-Grailed Teeth, are being offered at Reduced Prices

BLACK CELLULOID, UNBREAKABLE WITH ORDINARY USE.

Size 84 by 13 ins.

7/2 per dozen



Size 8½ by 1½ ins. 7/- per dozen.

"GRIPWELL." HOLLOW-BACK COMBS.

All sizes and Patterns in stock.

VULCANITE TOOTH COMBS. All sizes. Immediate delivery. Lowest quotations.

Price List on Application.

Terms: 5% Cash with order. Carriage Paid. 2½% Monthly on Approved References.

H. WISEMAN, 42-43, Gutter Lane, London, E.C. Telephone: City 9164-

DODGE & OLCOTT CO., LONDON, E.C. 3



THE "D & 0" BRAND
is the "Standard of Quality" for

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu. TONKA BEANS, Angosturas.

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Tacked Good Before you order any new line of Packed Goods, be it Liquid Paraffin, Petroleum Jelly, Oint-

ment of any kind—or any other line—write us for samples and quotations. We claim, as the largest importers of White Oils into this country, to be able to sell at prices which are unbeatable, while the quality of our lines is the equal of any.

A postcard request will provide the proof.

LIQUID PARAFFIN

A brilliant water-white oil (s.g. 890) of the highest viscosity, and conforming strictly to all B.P. requirements. This Liquid Paraffin will not cloud in the coldest weather. Packed in oval, ordinary white flat or white panelled flat bottles, which emphasize the brilliancy of the oil.

> EMULSIONS. Non-separable petroleum and Cod-

Non-separable performand Cou-liver Oil Emulsions, with or with-out hypophosphates in 33% or 50% strengths. Packed in special wide - mouth, oval - shaped white emulsion bottles with white viscose

OINTMENTS.

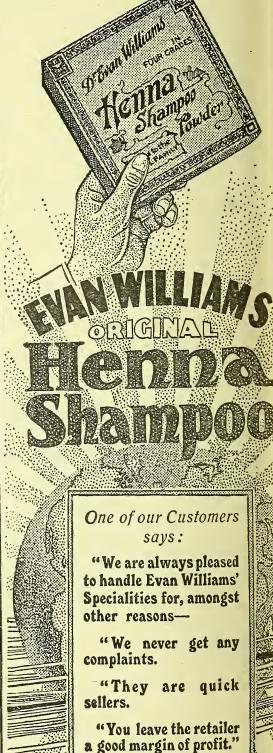
All B.P. and other Ointments, Cold Creams, Coconut Oil, etc. supplied either in flat decorated

tins or screw-capped opal jars—also in bulk in 1lb., 7lb. and 28lb. free tins.

Any of the above can be supplied in bulk at competitive rates. Send for samples and prices, also specimen labels.

ALBERT STREET, CAMDEN TOWN, N.W.1.





The EVAN WILLIAMS CO., LTD., 18 & 18a, Ogie St., Foley St., LONDON, W.1.

HOVENDENS Sweet Lavender Toilet Preparations

THE CHEMIST AND DRUGGIST



SWEET LAVENDER

A high class super fatted toilet soap manufactured exclusively from the purest materials.



TOILET SOAP.

Exquisitely fumed. Antiseptic. Refreshing Invigorating.
A Tonic for the Complexion.

No. 4837. 5/5 per doz.; 63/ per gross. 3 tab. boxes 15/9 doz.





Sweet Lavender **SMELLING**

SALTS

FOR

POCKET OR BAG.

Highly Perfumed, 7/9 doz., 3 doz. lots 7/6 doz.





No. 1260A. (Lavender Bags), Gold Blocked 5 9 doz.

WATER. LAVENDER

(As illustration.)

No. 4847. (About $\frac{1}{2}$ oz.) 8/9 doz. ... 3 doz. lots 8/6 doz. (Send for sample ½ doz.) In bulk, 1 lb. bottles, 9/6 each. Bottles extra.

R. HOVENDEN & SONS, Ltd., LONDON.

89, 91, 93 & 95 CITY ROAD, FINSBURY, E.C.1. And 29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W.1.

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N. Tel.: Museum 2810 (3 lines). Tel. Clerkenwell 1260 (2 lines).



IT IS ESSENTIAL THAT EVERY BOX AND BRUSH BEAR OUR WELL-KNOWN BRAND "THE FORT," THE MARK OF QUALITY.

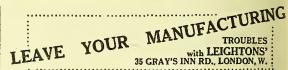
On sale at the PRINCIPAL WHOLESALE HOUSES.

Each Brush packed in a Carton, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition. N.B.—If unable to obtain from your wholesalers, samples will be sent on application to the manufacturers. Full Size - 16/- doz. Ladies - 15/6 ,, Wholesale Prices: LADIES

CHILDREN'S- 11/6 ; First Quality Only. Sample dozens o' the above, as well as our other Brands, viz,.--Royal Blue, Elephant, Crown, Victoria, Rob Roy, and full range of Dental Plate patterns, can be obtained on application.

PUFFS of ALL KINDS in DOWN and WOOL. SOLID FACE POWDERS COMPLETE WITH PUFFS. Inquiries invited by makers,

F. SCHUTZE & CO., Ltd. BLACK BULL WORKS, Caledonian Market, London, N. 7.



SEND US YOUR ENQUIRIES. NO FEASIBLE PROPOSITION REFUSED.

CHICAGO HAIR DYE

Do you know where to obtain?

MADE IN FIVE SHADES.

SINGLE, DALBY & CO., Proprietors: 51110LL, Manchester.



This popular article is largely advertised and stroked by all Wholesale Houses.

Trial Size 8d., per post 103, 1/4 size, per post 1/7;2/6 size, per post 2/11;3/9 size, per post 4/6;8d size, 6/4 doz.; 1/4 size 12/4 doz.; 2/6 size, 2/4 doz.; 4/8 size, 6/4.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.



SPONGES

WING to the increase and continued development of their Sponge Department, the Soc. Anon. CHIAPAS have formed a Subsidiary Company, which will deal in future exclusively in Sponges, under the title of

SPONGE FISHING THE AND **IMPORTING**

The direction and management remains the same as hitherto, and the only change is practically in the name. Send your enquiries for prices and type samples as before to

32 Queen Victoria Street, London, E.C.4.

Telephone : City 5824.

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6/6

5/-

1/-

36/-

58/6

... 45/-

DEARBORN L^{TD}

Gray's Inn Road, LONDON, W.C.1.

Toilet Specialties.

Tottet Spectari	Price	Selling Price
	o Retailer	P.A.T.A.
PILENTA SOAP	10/-	1/-
PROLACTUM	10/-	1/-
PARSIDIUM JELLY	10/-	1/-
ALLACITE OF ORANGE		
BLOSSOM	22/6	2/6
BORANIUM	22/6	2/6
CLEMINITE	22/6	2/6
COLLIANDUM	22/6	2/6
PERGOL	22/6	2/6
TEKKO PASTE	22/6	2/6
STALLAX	22/6	2/6
For a shampoo.	31/6	3/6
For clearing the skin.	•	
PHEMINOL	36/-	4/-
MENNALINE	36/-	4/-
MERCOLIZED WAX	31/6	3/6
STYMOL	36/-	4/-
For oily complexions and black	heads. 22/6	2/6
Hair-curling fluid.		
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LIQUID NAIL POLISH ... 10/-

CLYNOL BERRIES

SOFT PALERIUM ...

Brilliant and lasting.

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Luton Dye Works, KENDAL.

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Our Products are of entirely British Origin and Manufacture.



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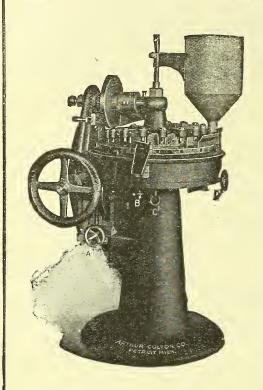
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£5 orders and over less 5% plus a further

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5% for cash in one month from date of invoice.

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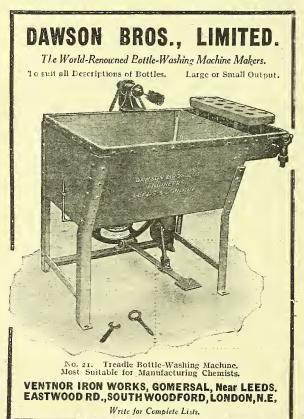
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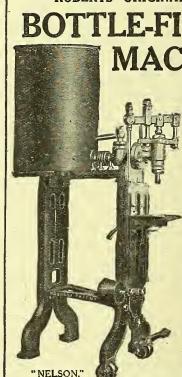
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For smaller output we recommend the Nos. 2B and 3B machines with a capacity of 100 Tablets per minute.

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Don't waste money

on imitations, buy Roberts' Machines which actually Created the Re cords for

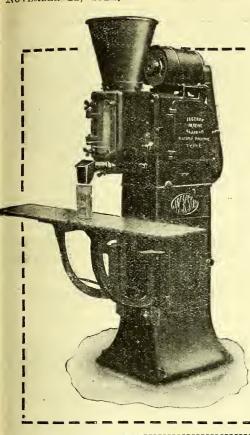
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Our latest pate "Alpha," price £14 will fill 10 gross bottle per hour.

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Using two nozzles, this machine can fill with one operator 3,900 × \(\frac{1}{4}\)-lb. tins or cartons per hour,

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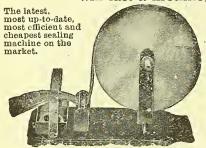
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GUMMED TAPE is being used by most of the large and up-to-date Firms. But to make sure of Efficiency in your Packing Department use the best Moistener on the Market—KING'S "AWLMETAL."

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Eng'ish Make.

6×8 6×10 10×8 12×8 12×10 (Approx.)
90z. 100z. 11½0z. 12½0z. 15 0z. (Weights)
2/6 2/9 3/3 3/9 4/3 each.

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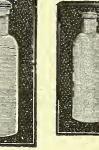
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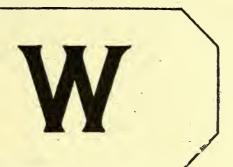
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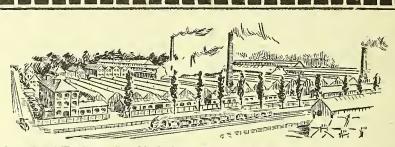
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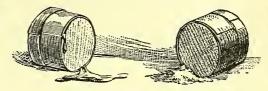
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Have replaced the old "Willow" boxes-Greaseproof—the bottoms cannot fall out.

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THEY ARE DEAR AT ANY PRICE.

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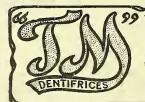
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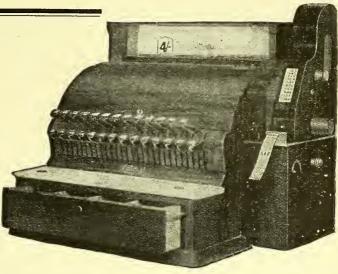
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Don't Forget to stock these two remedies **KRENOMAR* (REGD.) In the case of Toothache, | In cases of Ringworm, Alopecia, the Box with the RED Seal. &c., 'he box with the BLUE Seal. Sole Proprietors & Manuficturers The PROPRIETARY CURES (Parent) Co. Registered Office: Stallbert Road, MIDDLESBROUGH. Selling price in each case 1/1½ per box. SPECIAL TERMS to the TRADE Opinion of a (hemist: "Inavesold more than I thought I would." SPECIAL TERMS to the TRADE Opinion of a (hemist: "Inavesold more than I thought I would."

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collapsible tubes, Safe, simple, satisfactory

EVERY CHEMIST SHOULD STOCK IT

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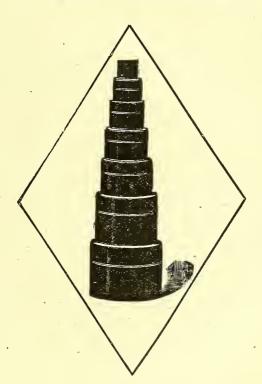
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BRITISH MADE BY BRITISH LABOUR.

SUPPORT HOME INDUSTRIES.

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BOXMAKERS TO THE CHEMIST TRADE

CHESTERFIELD.

Use Musterole Yourself

You'll appreciate keenly why customers, complaining of coughs, colds, sore throats, aches and sprains, rheumatism and lumbago, will benefit from Musterole.

These ailments are the result of inflammation or congestion. The call for a counter-irritant. Musterole provides the healing warmth of oil of mustard—Nature's great counter-irritant—in the form of a clean, white ointment. Being highly concentrated, it is extremely effective, and a very little—just a film of it on finger tips—is sufficient to draw out the inflammation and dissipate the congestion.

Musterole needs no pads or wrappings. Muffling the affected parts lessens their future powers of resistance. Musterole is hygienic, lets the body breathe normally.

You can recommend this easy, pleasant remedy to your customers with the certainty that an initial sale will lead to constant repeat orders.





Genuine v. Substitute

The genuine, original, non-greasy Toilet Preparation

"'HAZELINE' SNOW"

(Trade Mark)

Brings cumulative business. Satisfies every customer. Creates repeat sales. Makes for sound and profitable business by reason of its outstanding quality.

Glass pots, 15/- per doz. (subject to usual trade terms)

Another Substitute Suppressed



The Genuine



The Fraud

4, BRUCE LANE FORT BOMBAY

re "'HAZELINE' SNOW"

We, Mehta Bhuta & Co., hereby tender our humble apology to Messis. Burroughs Wellcome & Co. for infringement of their trade marks, and agree to its publication.

We hereby undertake to withdraw from sale and destroy all labels and cartons or other printed matter which simulate the get-up or style of "'Hazeline' Snow" by the predominant use of snow-clad mountain and blue background device.

Dated this 6th day of October, 1922 (Signed) MEHTA BHUTA & Co.

Witness:
FRASER & Co.

MINT ROAD, FORT, BOMBAY



BURROUGHS WELLCOME & CO., LONDON

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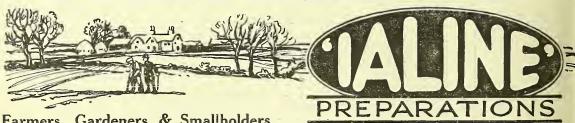
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Get this display into your window on the first wintry day. The resulting sales will astonish you. A SIMPLE window dressed with the Stock Showmatter supplied by The United Chemists' Association, Ltd., Cheltenham, in connection with their splendid Bronchial Lozenge Advertising Scheme. The noteworthy feature of this campaign is the prominence given throughout every bit of publicity matter to the picture of the handy little tin and to the slogan "The little lozenge that cures a lot of coughs"

IT PAYS TO LINK UP WITH SUCH ADVERTISING AS THIS!

United Chemists' Association, Limited - Cheltenham Spa.



Farmers, Gardeners & Smallholders are demanding "IALINE" preparations, and the extensive publicity campaign which we are running is daily creating fresh demands.

Are you ready to supply the public's needs?

If you are not already stocking "IALINE" preparations—then write for trade terms,



For
AGRICULTURE &
HORTICULTURE

'IALINE' INSECTICIDE POWDER and 'IALINE' SUMMER WASH

are two most profitable and quick-selling lines.

In order to assist our Trade friends, we are supplying new and attractive literature on which each individual customer's name and address is printed, together with showcards for window or counter displays.

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Telegrams: "Burboul, Ave, London." Cables: "Burboul London." Codes: ABC (5th Edit.); Lieber's: Western Union; Bentley's.

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WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

CHEMIST AND DRUGGIST is in circulation and reputation he leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official rogan of the Pharmaccutical Society of Ireland, the Chemis's and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C.4

Telegrams: "Chemicus; Cannon, London," Telephone: Central 3617
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Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester.
(Telephone: City 52).
Melbourne and Sydney, Australia.

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Business Changes

ESSENCES & SYNTHETICS, LTD., have removed from 37 Red Lion Street, London, W.C.1, to 4 Carlisle Avenue, Fenchurch Street, E.C.3.

Mr. E. Harrison, chemist and druggist, has taken over the businesses of Mr. H. Rogers Jones, chemist and druggist, at Llandudno Junction and Glan Conway. Mr. Jones retains his business at Conway. [Amended note.]

THE SPONGE FISHING AND IMPORTING Co. is the name of a subsidiary organisation formed by the Société Anonyme Chiapas, 32 Queen Victoria Street, London, E.C.4, for the purpose of handling more satisfactorily the company's continually increasing trade in sponges. The London management remains in the hands of Mr. C. Clifford Potier, and the arrangements at Brussels and at the company's buying establishments have undergone no change. Particulars of the new departure are given in the advertisement columns of this issue.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Parliamentary Election

The following candidates, in addition to those mentioned in the C. d D., November 4, p. 631, have been nominated for election to vacant seats in the House of The letters in parentheses are used with the Commons. same meanings as in that issue :

Mr. Charles Ernest Tee, manufacturing chemist, York, has been nominated as a candidate (N.L.) for the Brox-

towe division of Nottinghamshire.

Major A. G. Church, general secretary of the National Union of Scientific Workers, is a candidate (Lab.) for the Spelthorne division of Middlesex.

Mr. H. H. Slesser, who was junior counsel for the defence in the "test case" (Jenkin v. the Pharmaceutical Society of Great Britain) in 1920, is standing (Lab.) for Central Leeds.

Mr. E. Brotherton-Ratcliffe, a director of Brotherton-Ratcliffe & Co., Ltd., chemical manufacturers and exporters, Winchester House, Old Broad Street, London, E.C. 2, is contesting (L.) East Leyton.

Mr. W. Marshall Freeman, barrister-at-law and pharmacist, is engaged (U.) in a three-cornered contest in the Ilkeston division of Derbyshire. Mr. Marshall Freeman is the eldest son of the late Mr. John Freeman, chemist and druggist, Icknield Street, Birmingham. He matriculated in the University of London in 1885, qualified as a chemist and druggist in 1890, and passed his final Bar examination in 1904. He was at one time associated with his father in business. Municipal and political affairs have claimed much of Mr. Marshall Freeman's attention since the early 'nineties, and he has also taken a prominent part in educational matters in Birmingham. During the war he rendered important service as a civil liabilities commissioner, and more recently he has presided with distinction over the Complaints Tribunal of the Central Committee appointed by the Board of Trade under the Profiteering Act, to inquire into complaints against wholesalers.

The Royal Society

The King has approved the following awards this year by the President and Council of the Royal Society:

A Royal medal to Mr. C. T. R. Wilson for his researches on condensation nuclei and atmospheric electricity; and to Mr. J. Barcroft for his researches in physiology, especially in connection with respiration.

The following awards have also been made by the Presi-

dent and Council:

The Copley medal to Sir Ernest Rutherford for his researches in radioactivity and atomic structure; Rumford medal to Professor Pieter Zeeman, Foreign Member, for his researches in optics; Davy medal to Professor J. F. Thorpe for his researches in synthetic organic chemistry; Darwin medal to Professor R. C. Punnett for his re-searches in the science of genetics; Buchanan medal to Sir David Bruce for his researches and discoveries in tropical medicine; Sylvester medal to Professor T. Levi-Civita for his researches in geometry and mechanics; Hughes medal to Dr. F. W. Aston for his discovery of isotopes of a large number of the elements by the method of positive rays.

Sodium Phosphates

The Board of Trade have received a formal notice of complaint under Section 1, Sub-section (5) of the Safe-guarding of Industries Act that sodium mono-phosphate. R. sodium di-phosphate, and sodium tri-phosphate [the prefix R was added to sodium tri-phosphate on April 6, 1922] have been improperly included in the lists of articles chargeable with duty under Part 1 of the Safeguarding of Industries Act. The Board have in addition received a complaint in respect of "sodium phosphate," and the complaint in respect of softlin prosphere, and the complaint to cover, in addition to the three items indicated in the preceding paragraph, other listed items, such as sodium pyrophosphate. This complaint is outside the precise terms of the Board of Trade list, and the Board will contend that the only valid complaints under Section 1 (5) which they have received in this connection are in respect of sodium mono-phosphate, sodium di-phosphate, and sodium tri-phosphate. The complaint will be submitted to the Referee appointed by the Lord Chancellor for the purposes of the sub-section, and any person interested should communicate immediately with the Assistant Secretary, Board of Trade, Great George Street, London, S.W. 1

Public Institution News

Mr. T. Mansell has been appointed dispenser at the Islington Infirmary, London, in succession to Mr. L. Billington, who has left institutional work for the wholesale.

Since the outbreak of small-pox in East London, public vaccinators have been kept busy. At most of the hospitals and institutions the staff are being vaccinated, and several dispensers are to be seen sporting the red arm-band.

The executive council of the Federation of Medical and Allied Services announces that it will bring to the notice of electors in certain constituencies where the candidate is a medical man the advantages to health interests of helping to secure his return. In addition, several laymen interested in health work are assured of support, but no mention is made of those pharmacists who are entering the fray.

Fatal Explosion

An explosion in a drug-store in Sidney Street, Whitechapel, London, E., on November 4, resulted in the death of the proprietress, Mrs. Ginsberg, and injuries to her son, aged fourteen, and her mother. At the inquest on November 7 it was stated in evidence that on a table in the parlour at the rear of the shop a heap of powder of a light yellow colour had been seen prior to the explosion, and also a pestle and mortar. Mr. P. V. Dupré, chemical adviser to the Home Office, said that certain packets taken from the house contained a mixture of potassium chlorate and sulphur, If lighted, the mixture would burn with a very fierce bluish flame, but would not explode. It was very sensitive to friction, and would explode with great violence and with the greatest ease if worked with a pestle. It would be very difficult to mix a powder of the kind without causing an explosion. Major H. Cunningham, Inspector of Explosives to the Home Office, said that sulphur and potassium chlorate was known as a firework composition, but the use of it for that purpose was illegal. Deceased was breaking the law by making, selling and keeping it. He added that had the mixture been ignited by burning the deceased would have had time to get away. The explosion had probably resulted through the friction employed in the mixing. The coroner said there was no doubt how the explosion occurred. It was very important that it should be known that people were committing an offence by making the mixture, as was apparently done by small shopkeepers in the East End and elsewhere. The jury returned a verdict of "Accidental death."

Attempted Poisoning Charges

At Clerkenwell Police Court, London, on November 7, Bernard Frederic Hartzhorne, L.S.A., M.R.C.S., Fairfax Road, Hampstead, N.W., was committed for trial on a charge of attempting to commit suicide. Evidence given showed that Dr. Hartzhorne was found in an unconscious condition in a Bloomsbury hotel, and that a medical man who was called in found in the room a bottle which had held "about twenty or twenty-five" sulphonal tablets; there were only two tablets left in the bottle.

At Farnham, Surrey, on November 8, Albert Mills, whist-room proprietor, and Dorothy Spring, described as a chemist's assistant, both of Grimsby, were committed for trial on a charge of having attempted to commit

suicide by taking poison, at Deepcut, on October 22. A statement by Spring, put in by the police authorities, ncluded the following passage:—"We went into a wood at Deepcut.... He took a bottle of beer, poured a portion into a glass, and put in twenty-five tablets of zeronal, and then drank it. Then, after about half an hour, he became unconscious and remained so. When I saw his condition, that he was unconscious, I took two drachms of nux vomica. This I had brought with me from my home. I do not know that this took any effect. Five to fifteen drops is the amount used for dispensing. The amount I took was 120 drops."

Birmingham

Cadbury Bros., Ltd., bave contributed £1,000 to the Lord Mayor's Unemployment Fund.

Railway pilfering, in spite of imprisonment without the option of a fine, is still rife in this city and the Midlands generally.

Mr. W. H. Whittock, chemist and druggist, district manager to Boots, Ltd., has been appointed a member of the Birmingham War Pensions Committee.

The "rat week" has furnished the medical officer of health with an opportunity of warning citizens about the indiscriminate use of poisons, and requesting them to exercise great care.

Mr. Jeffrey Poole, chemist and druggist, who has served on the City Council for twelve years, has again been re-elected, and appointed to the Fairs and Market, Baths, and Municipal Bank Committees.

"The Compelling Power of Publicity" was the subject of an address given by Mr. F. E. Potter, of the Association of British Advertising Agents, to a meeting of the Birmingham Chamber of Commerce, on October 2.

Mr. F. R. O'Shaughnessy, who recently retired from the office of secretary of the Birmingham and Midland section of the Society of Chemical Industry after seventeen years' service, was presented, at a dinner held on November 4, with a microscope and accessories. The apparatus was supplied by Southall Bros. & Barclay, Ltd., and selected by Professor Ling and Mr. F. H. Alcock, F.I.C., Ph.C. A diamond and opal ring was presented to Mrs. O'Shaughnessy.

Leicester

A warming pan_displayed in conjunction with hot-water bottles at the Waterloo Pharmacy, has, according to Mr. T. C. Perberdy, the proprietor, proved an efficient salesman.

Pavement advertising, by means of a projector lamp, is being employed by J. Young & Sons, Gallowtree Gate, with good results. No objection has been raised to the method up to the present.

The municipal elections at Leicester resulted in the election of Mr. S. E. Cleaver and the defeat of Mr. E. A. A. Fry, the retiring member, for the Aylestone ward, whose public work has recently, been eulogised in the local Press. Mr. Cleaver's victory is regarded as a notable one, and he brings to the council an engaging personality.

Liverpool

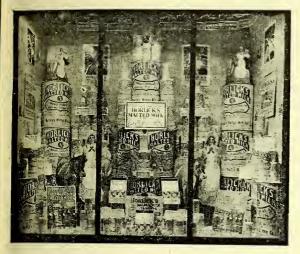
In the Liverpool municipal elections Mr. Edwin Thompson (Thompson & Capper, Ltd.) and Mr. John B. Herman were re-elected by large majorities.

"Do you want anthrax, sir?" asked a pharmacist when an overseas customer demanded a shaving-brush for a shilling. The query may have been blunt, but the result was that an 8s. 6d. brush was sold.

Mr. E. Glynn Henry (Liverpool representative of Allen & Hanburys, Ltd.) had halted in his motor car at Southport, the other day, when a cyclist ran into the car, damaging the engine, as well as the bonnet. Mr. Henry escaped personal injury.

Manchester

Boots, Ltd., are shortly opening a new branch under the Royal Exchange. A large poster announces that this will be the largest chemist's shop in the world. In order to demonstrate the efficiency of their "X-Ray" reflectors for lighting windows, the British Thomson-Houston Co., Ltd., London, Rugby, and branches, have equipped at their Manchester showrooms a model pharmacy-window provided with the new lighting. The



window has been dressed by the Horlick's Malted Milk Co., and, by way of contrast, a window lighted in an old-fashioned style is also on view. Some idea of the effectiveness of the Thomson-Houston Company's lighting may be gathered from the accompanying illustration, exclusively taken (by the light of the window itself) for The Chemist & Druggist. Chemists from all parts of the country will, of course, be visiting the Chemists' Exhibition, which opens on November 20; and they are cordially invited by the company to inspect the window at National Buildings, St. Mary's Parsonage, Manchester.

The Wilbraham Road pharmacy of Mr. W. H. Harrison, Chorlton cum-Hardy, is providing a new sensation in the shape of a "follow-up" window-display of Genatosan products. The earlier window was reproduced in the U. & D. of October 28 (p. 584). The one shown in the present illustration has been carefully thought out. The letters on the upper part are made of very thick white demy, and are pasted on in measured spaces so as to get



Photo]

[Cleworth

symmetry: they can be seen thirty yards away. The lower portion of the window comprises a specially painted cardboard background (a pharmacy), people cut out of cardboard running towards the pharmacy—" having a big

run on "—and cartons of Genatosan products. More will probably be heard of follow-up windows in the near future. Mr. Harrison has added another price to his long list of successes, being awarded the 1st prize of £10 in the Johnson's baby-powder window-dressing competition.

Mr. Bernard Redford, chemist, Cheetham Hill Road, and Mrs. Redford, have just returned from an extensive tour of the Continent, occupying over a month.

Councillor Walter Davies, chairman of the Manchester Insurance Committee, was successful in retaining his seat on the City Council at the Municipal election on November 1.

Quite a number of chemists and their friends have visited the Food and Cookery Exhibition at the City Exhibition Hall, **Dea**nsgate.

Two Manchester businesses have recently changed hands, that of Mr. A. Larminie, 137 Denmark Road, Greenbeys, being taken over by Mr. James Cannon, chemist and druggist, and that of Lupton's, Ltd., by Simpsons, Ltd., Longsight.

Chemists and their assistants are cordially invited to attend the lecture on "Wireless Broadcasting," by Mr. Hugh G. Bell, M.Sc., on November 15. Mr. Bell is the son of Mr. Joseph Bell, a well-known past-President of the Manchester Pharmaceutical Association. The lecture is sure to be particularly interesting at the present stage of broadcasting. The lecture will be held at the Houldsworth Hall, Deansgatc, and is open to ladies, as well as members of the Association.

Sheffield

Sheffield University has opened a pharmacological field laboratory at Redmires.

Mr. G. K. Greenstreet, chemist and druggist, has reorganised the business he purchased in Ellesmere Road a short time ago and has made it an up-to-date pharmacy.

Mr. G. F. H. Coates, chemist and druggist, who recently disposed of his pharmacy in York (C. & D., August 26, p. 301), is returning to Sheffield and will open a business at 551 Ecclesall Road.

Miscellaneous

Oxalic Acid.—The Board of Trade have been notified by the Referce, appointed under Safeguarding of Industries Act, Part I., that at the request of Stephenson, Harwood and Tatham (acting for the complainants, the Chemical Merchants and Users' National Vigilance Committee), he has postponed the oxalic acid hearing, which he originally fixed for November 4, to Saturday, November 11, 1922.

Boy's ACCIDENT. — On the sea-front at Dover, on November 8, a twelve-year-old boy suddenly "burst into flames." Men rushed to his assistance, and two of them had to be treated for burns. Several tubes had been washed ashore, apparently from a war wreck. They are thought to have been used in the war to make smoke screens by vessels of the Dover Patrol. The lad had taken some of the mixture from the tubes and put it in his pocket.

Opposition to poison-licence applications.—At a meeting of the Cumberland County Council on November 1 Mr. T. Hardy (Chairman of Executive, Retail Pharmacists' Union) took exception to licences for the sale of poisons being granted to the West Cumberland Farmers' Trading Co. in respect of their branches at Cockermouth, Wigton, Bootle and Gosforth, and moved that the matter be referred back. He contended that there were already sufficient facilities. After a discussion, Mr. Hardy's amendment to refer the matter back was agreed to.

Poisoning.—An inquest was held recently at Wimbledon on the body of Mr. William Widdowson Talbot, chemist and druggist, 530 Kingston Road, London, S.W. 19, who was found dead at his residence on October 27. The widow gave evidence to the effect that Mr. Talbot had lately been subject to fits of depression, but had no trouble so far as she was aware. A medical witness stated that on a post-mortem examination being made gall stones were found, and the presence of a fatal dose of hydrocyanic acid was also observed. A verdict

of "Suicide while of unsound mind" was recorded; and the coronic expressed sympathy with Mrs. Talbot and her daughter.

Shopping week, which opened on November 2 with a procession of decorated trade vehicles, Mr. R. Evans, chemist and druggist, took the first prize in the cycle class. Boots, Ltd., were awarded three prizes in the window-dressing competition. One window was specially attractive, showing an Arctic scene by way of advertising vacuum flasks. By a mechanical arrangement steam was produced from an opened flask. Messrs. Boots also took a prize for decorated premises. Each souvenir guide-book was numbered, and the public were asked to search the shopwindows for the corresponding number attached to some article which could be claimed. One chemist had 19 numbers in his window, 12 of which had been claimed by November 7.

In the courts.—At Greenwich Police Court, on November 3, Morton Everard Tressider, M.R.C.S., L.R.C.P., Mycenæ Road, Blackheath, was summoned for causing unnecessary suffering to a dog by unreasonably ejecting an irritant fluid into its eyes. It was stated that on September 28 the owner of the dog was in a shop when Dr. Tressider was passing on a bicycle, fitted with an auxiliary motor, and the dog ran—not at him—but after a dog which was close to the bicycle. Dr. Tressider squirted a solution of ammonia in the dog's face. The fluid entered the eyes and set up conjunctivis and considerable pain. The defence was that a solution of ammonia "one part in 20" was used, and that the pain caused was only temporary. The summons was dismissed, with £3 3s. costs.

Inventors' claims.—The Royal Commission on Awards to Inventors investigated, on November 1 and 8, a claim by Major C. W. Ellis, South Kensington, in respect of the Ellisfield fat-extracting plant for producing clarified fat from bones. It was stated that by means of the invention of Major Ellis it was rendered possible for waste products of camps and bases and of the lines of communication to be treated in such a way that all the fat they contained was seperated and reduced to a condition in which it could be sent to England for the manufacture of glycerin. Bones were also treated that they might be sent home for the extraction of glue. The claimant gained some reputation among the troops in France, and was popularly referred to by them as the "Fat King." The proceeds of the sale of the fat recovered by Major Ellis's plant amounted to about £500,000.—The hearing of a claim by Mr. C. Teasdale-Buckell, Golders Green, was also begun. The claim of the inventor was that he had applied and made use of special light-filters for detecting periscopes of hostile submarines with binoculars and other optical instruments. Another part of the claim was in respect of light-filters fitted to binoculars which enabled colours of flags to be read at the distance of three miles in bad weather. The hearing was adjourned.

Irish News

Brevities

National troops searched Coghlan's Medical Hall, O'Connell Street, Ennis, recently, and arrested the proprietor, Mr. Charles Coghlan.

At Lurgan Board of Guardians a letter was read from the analyst, Mr. Robert T. Blake, Belfast, enclosing a report of samples of drugs from the Workhouse Infirmary. Too small a quantity was sent for analysis, and two months elapsed before he received the samples for analysis. Samples should be sent almost immediately on receipt of consignments. It was decided to draw Dr. Darling's attention to the letter for an explanation.

Belfast

Sir Wm. Whitla, M.P.S.I. (Conservative), was returned unopposed on November 4 for the Queen's University of Belfast, which he represented in the late Parliament. At the recently monthly meeting of the City Council it was decided to seek powers in the proposed Corporation Bill to regulate the sale of methylated spirits in Belfast.

Mr. James Dundee, Ph.C., has been granted permission by the Police Committee of Belfast Corporation to erect an illuminated sign at his new pharmacy, 28 Castle Street.

The Improvement Committee of the Corporation has approved of plans for an addition to the premises at North Street for J. & J. Haslett, Ltd., wholesale druggists.

The annual dinner of the Belfast Chamber of Trade held recently, which was presided over by Mr. J. C. Culbert, M.C.P.S.I., the newly-elected President, was attended last week by Sir James Craig, Prime Minister of Northern Ireland, Sir Dawson Bates, Minister of Home Affairs, Mr. E. M. Archdale, Minister of Agriculture, Sir Wm. Coates, Bt., Lord Mayor, and Mr. W. H. Webb, President of the Chamber of Commerce. The toast of the evening, "The Prime Minister," was proposed by Mr. Culbert. Sir James Craig responded at some length, and during the evening gave the toast of the President, paying tribute to his work for the drug-trade.

Dublin

Mr. F. J. Campbell, Innisfail, Mount Eden Road, Donnybrook, Dublin, has been appointed representative for the South of Ireland for "Areco" products, to whom Irish inquiries should be directed.

Hoyte & Son, Ltd., have disposed of their chemist's business at 17 Lower Sackville Street, Dublin, to Mr. Ronald Campbell, Ph.C., who for many years has acted as manager to the firm, and who will now carry on the business. Messrs. Hoyte have acquired premises at 11 Marlborough Street for their oil, colour and glass business.

Scottish News

Brevities

Bailie J. Bain, Ph.C., Bridge of Allan, has been elected a member of the local parish council.

Mr. A. A. Williamson, F.S.M.C., chemist and druggist, Stanley, has been elected a Fellow of the Institute of Ophthalmic Opticians.

Mr. F. C. Rheinbach, chemist and druggist, has taken over the pharmacy of Mr. John Hodge, chemist and druggist, 249 Overgate, Dundee, who has retired owing to the state of his health. The business is one of the oldest in the city, having been established by the late Dr. Hodge, a brother of Mr. John Hodge.

Aberdeen

In a further letter to the local Press on behalf of the pharmacy students at Robert Gordon's Technical College, Messrs. Ironside and Munro, President and secretary, respectively, of the Pharmacy Circle, say: "The laboratory in which we work is built for eighteen students, whilst we number over thirty. As we have pointed out, we have no provision for our comfort, and yet we each pay a fee of thirty guineas for the session. Since pharmacy students pay over £1,000 in fees, we are surely entitled to be more worthily housed."

The report for session 1921-22 on the work of the Central Institution of Robert Gordon's Technical College states that one student who attended the special lecture courses in advanced organic and physical chemistry passed the Major examination of the Pharmaceutical Society, and all the students of pharmacy, with one exception, passed the Qualifying examination in chemistry of the same body. Mr. E. G. Bryant, B.Sc., Ph.C., head of the pharmacy department, reports that the session was marked by the same large attendance as the three preceding. There was a diminished proportion of the ex-Service students in the enrolment, and of these only eight attended the classes. The number of students successful in the Qualifying examination was as follows: October, 1921, 7; January, 1922, 6; April, 1922, 5; July, 1922, 13—total, 31. A student of the evening classes, Mr. J. H. Stephen,

won a certificate from the Pharmaceutical Society for his herbarium. This is the second distinction of this kind won by students of the school in the past two years.

Edinburgh

In a football match, on November 1, Pharmacy defeated Southside Athletic by two goals to nil.

A meeting of the creditors of Mr. W. W. Brown, chemist and druggist, 39, Caledonian Crescent, will be held at the chambers of James Pollard & Bird, chartered accountants, 17, Duke Street, Edinburgh, on November 16, at 11.30 a.m.

Dr. W. Inglis Clark, Duncan Flockhart & Co., has recently lectured on "Bonnie Scotland" in the Livingstone Hall, Edinburgh, and on "The Tyrol in Summer and Winter," before the Bridge of Allan Public Interests Association. Both lectures were illustrated by lantern slides, and much appreciated. Mrs. Clark, wife of Dr. Clark, has been re-elected to the Parish Council.

The Edinburgh Anti-Opium Committee for promoting the objects of the Hague International Opium Convention, has, in view of the General Election, issued a circular which, inter alia, drafts two questions, which it sugests should be put to all candidates. A copy of a "resolution" is also given, which "when passed, should be sent up to the Premier, and the Home, India, and Foreign and Colonial Secretaries."

Fife

At the annual general meeting of Kirkcaldy Photographic Society, recently, Mr. D. Storrar, chemist and druggist, was appointed honorary President and Mr. C. Stewart treasurer.

A photograph of Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, chairman of Raith Rovers Football Club, taken prior to the Dundce match, appeared in "The Fife Free Press," November 1.

Glasgow

Mr. C. E. Bremner informs us that he has disposed of his business, the Carlton Drug Store, 9 Stevenson Street.

The employees of Mr. Thomas Mackinnon, chemist and druggist, Govan, held a successful dance in the Pearce Institute on November 7.

A concert, under the auspices of the Glasgow Pharmacists' Masonic Club, will be given in the Lyric Theatre on December 19. The proceeds are in aid of the Lodge funds.

The following are the winners of the Glasgow Pharmacy Golf Club's trophies for the year 1922: McKay cup, B. Christie; Smith cup, E. Blythe; Virol cup, E. Blythe; Hatrick trophy, E. Blythe and G. Reidford.

French News

(From the "C. & D." Paris Correspondent.)

BICARBONATE OF SODA administered by the mouth for ulcers in the stomach, is apt to perpetuate the state of hyperacidity, said M. Lenoir, at the Academy of Medicine recently, but if introduced by the rectum, it has no such effect. This new method has all the advantages, without any of the drawbacks, of the existing treatment.

M. MARC BRIDEL has applied Bourquelot's biochemical methods to the examination of Sedum Telephium (Crassulaceæ), and has found in the stems and roots a glucoside which after hydrolysis yields an oil with a rose-like odour. He has not yet succeeded in obtaining the glucoside in a crystallised state, but is of opinion that the product is akin to geraniol.

Traffic in Paris.—Some indignation has been raised in Paris by recent motor-car accidents, and particularly by an incident which occurred in the Rue de Douai. A cyclist employee of a pharmacist was delivering medicaments when he was struck from behind by a taxi, which did not stop. The cyclist was thrown into the plate-glass window of a shop, and death was instantaneous.

The cold process for the preparation of vaccines (Dr. Zivy's note, read at the Academy of Medicine, stated), is preferable to existing methods. Dr. Zivy freezes his cultures (in an aqueous solution) at—18 deg. C., and then thaws them at 16 deg. Thus, he states, the albuminoids remain intact, and the vaccine retains its qualities, causing no local or general complications.

Professor Hallers' "Actualités de la Chimie Contemporaine" is a collection of lectures delivered at the Sorbonne (Paris Faculty of Sciences) since the war. Besides articles on the use of gas during the late war, it contains papers on quantitative organic microanalysis, catalysis, some compounds of iridium, naphthalene from a scientific and industrial point of view, biological chemistry, etc., by various authors.

A PASTEUR STAMP.—An important Parisian daily having suggested that the new French "international" postage stamp should bear the effigy of Pasteur, M. Paul Laffont (Postmaster-General) has expressed his entire approval of the idea, and added that he only awaits the approval of the Minister of Finances to carry it into execution. It is therefore hoped that the issue of the new stamp may be ready in time for the Centenary.

The Lyons Mail.—The death is announced from Doual of a local chemist, Lesurques by name, the last surviving descendant of the unfortunate Joseph Lesurques, whose case has been kept before the public, both French and English, by the drama the "Courrier de Lyon," known to us as "The Lyons Mail," ever since 1850. In 1832, and, finally, in 1868, vain attempts were made to rehabilitate the character of Joseph Lesurques. The French play was written by Moreau, Giraudin, and Delacour.

M. Daniel Berthelot gave an address at the inaugural meeting of the Congress of Liquid Fuels. He emphasised the importance of the production of industrial alcohol in France as a substitute for foreign petrol. He added that a scientific committee had been formed to analyse and test the various liquids. Three formulas had been retained, and one of these might be put on the market in a few months. Some ten thousand litres of pure alcohol had been made by this process, and it was now being practically tested.

Wireless Thought Reading.—The annual meeting of the five Academies took place on October 26. The Academy of Sciences was represented by Professor Daniel Berthelot (Paris Faculty of Pharmacy), who read a paper on "Invisible Waves." The Professor suggested that there may still be imperceptible vibrations which have not yet been discovered, in which case it is possible, he concluded, that human thought should be outwardly manifested by such electric waves, capable of being revealed by sufficiently subtle "detectors."

THE "MERVEILLEUSE JOURNEE," a comedy produced at the Palais Royal Theatre, recently has a pharmacist's assistant for its hero, and in two of the three acts the scene represents a provincial pharmacy. Business is not brilliant, but so far a certain rich patient has considerably assisted the local doctor and pharmacist in making a living. Judge of their despair when they learn that their best client has decided to leave for Deauville! The pharmacist instructs his assistant (Blaise) to travel to the same destination, and keep him posted up as to the client's movements. Blaise takes his mission very seriously, and follows his "patient" even into the baccarat saloon of the casino. The assistant is tempted to try his luck, and, before the evening is out, finds himself a millionaire. This act to a large extent secures the success of the piece, Max Dearly (Blaise) very cleverly rendering the gamut of emotions of a young provincial in such a situation. He spends some of his wealth in purchasing a collar of pearls for a pretty fellow-gambler with whom he has been flirting, and returns fatal table with the inevitable result. In the third act, he reappears in the pharmacy, penniless once more. But he has the agreeable surprise of receiving the visit of his Deauville flirt, who brings him back the collar. She is, she explains, simply a little music-mistress who was there by chance, like himself. The sequel may be easily guessed.

American Notes

By "THE MAN FROM LONDON"

TRADE OF U.S. WITH TURKEY.—According to the Trade Record of the National City Bank of New York the trade of the United States with Turkey amounts to over \$100,000,000 a year. The value of Turkish exports to the United States is put at £4,981,000 sterling.

Money for nothing.—A Chicago store on State Street recently had its windows full of roubles and a big placard announced: "Twenty million Russian roubles, formerly worth \$11,000,000, given away; 25,000 with each \$2.00 purchase; 50,00 with each \$3.75 purchase; 100,000 with each \$6.50 purchase. Come and get yours."

ANTI-FREEZE MIXTURE FOR AUTOMOBILES.—Among other formulas given for the prevention of the water freezing in automobiles, 15 to 20 per cent. of liquid glucose added to the water used in radiators is recommended. The glucose is mixed with enough warm water to dissolve it, and is then added to the remainder.

Some statistics to think over.—It is estimated that the United States is supplying from 10 to 12 per cent. of the imports of India. Before the war the United States supplied only 2.6 per cent. The exports from America in 1920 to India were about ten times as much in value as in the year immediately preceding the war, the total value having grown from \$10,379,000 in 1914 to \$99,828,000 in 1920, and while the 1921 exports showed a decline they were about six times as much as the year immediately preceding the war. Canada is another good customer of Uncle Sam, who sent over the border line in 1921 imports to the value of \$856,613,430, while the imports from the British Empire amounted to \$265,911,222, and other countries \$117,634,230. The United States is also estimated as having supplied about 25 per cent. of the total imports of Australia (in a recent year) and purchased about 15 per cent. of the total exports. The trade of the United States with the United Kingdom during the year 1920 amounted to the vast sum of \$3,320,434,238.

Drug store window displays.—Druggists, as a rule, do not appreciate the value of their store windows. H. G. Wright, in the course of some pertinent remarks upon the value of drug store windows before the National Association of Retail Druggists convention in Detroit, Mich., said that he had made his windows, in size only two and one-half feet wide and seven feet long, pay him the respectable sum of \$2,500 in cash during the last forty months. They sold many thousand dollars' worth of merchandise and gained for the store the name of "the store with the pretty window displays." This \$2,500 cash is clear profit; it consists of prizes for window displays offered by manufacturers. A crowded window is not much good, as a person looking it over permits his eyes to wander from one thing to the other, and by the time he has looked the window over his mind is in a jumble—just like the window. Mr. Wright believes in displaying a few related articles, and finds black and white the best colour scheme. Of the half-hundred or more of his prize windows, blacks and whites have been the most consistent money-getters.

American Pharmaceutical Association.—The plan for reorganising the Association adopted at the recent Conference in Cleveland is to make the various State pharmaceutical associations integral parts of the A.Ph.A. through a delegate representation, which it was decided should be in the proportion of one delegate for every 500 members in the State Association, provided not less than 10 per cent. of these State members are subscribing members of the A.Ph.A. From the purely scientific and professional standpoint the A.Ph.A. has done much for pharmacy in America, and it is to be deplored that the greater proportion of the registered pharmacists in the United States have such a small interest in the A.Ph.A. At a modest estimate there are at least 75,000 registered men, and the entire membership of the A.Ph.A. is only 3,500. Considering the fact that no State has, at this time, 500 members, the plan is unlikely to lead to increased membership, or to more interest being taken by the retail drug trade. New York State, with 12,000 registered pharmacists, counted a few months ago only 480 members, while Illinois with 6,604 registered pharmacists

macists had 435 members. The real cause of this state of affairs is that retail pharmacy is only 10 per cent. professional and 90 per cent. commercial, and naturally enough an association which is purely professional in its aims and aspirations does not meet the requirements of the great majority of American pharmacists.

Colonial and Foreign News

The Potash industry.—The "Kölnische Zeitung" of September 26 states that, according to the premliminary statistics of the Potash Examining Office, Berlin, the output of the German potash mines amounted during the first six months of 1922 to 5,893,711 tons of potassium salts (682,787 tons of pure potash K_2 0). The sale of potash products was fairly brisk, and amounted from January to June to 1,996,970 tons; that is, 526,713 tons of pure potash. Compared with the same period last year, the inland sales increased, therefore, by 193,386 tons of pure potash, or 58 per cent. This increase is chiefly owing to certain relief measures (such as freight reduction, the granting of discount, etc.).

JAVANESE OPIUM FACTORY.—From the annual report of the Javanese Opium Factory for 1921 it appears that there was a considerable decrease in the demand for opium, leading to extensive dismissals among the native workmen in the factory. Of particular interest are the remarks regarding the measures taken to prevent thefts of opium by native workmen employed in the factory. More stringent examinations were enforced, including the use of x-rays in the case of certain suspected workmen. Although irradiation plainly showed the presence of tubes in the intestinal canal of these persons, no punishment could be inflicted, since it was not possible to produce the corpus delicti. Consequently it was decided, with the consent of the state prosecutor, to erect three cells in the premises of the factory, in which suspects could be kept under observation. As in former years, the raw opium was purchased in British India, at the rate of 2,500 rupees for a picul of raw Bengal opium. Including freight, insurance, etc., the average cost price per picul amounted to 2,005 florins, or 749.83 florins less than was paid in 1920. The number of tubes of opium produced fell from 194,990,005 in 1920 to 116,537,734 in 1921, and the amount of raw opium utilised in the preparation of these tubes aggregated 2,088 picu's, against 3,177 piculs in 1920.

GERMAN CHEMICAL INDUSTRY .- The annual report of the association for the protection of the interests of Germany's chemical industry states: During the first half of the present year conditions were unfavourable to the sale of medicinal products, but improved later. The chemical industry is very hard hit by the provision in the peace treaty requiring the delivery of 25 per cent. of the total production of medicinal products and dyes to the Allies, a measure which has a powerful influence on foreign trade. The pharmaceutical industry has suffered greatly through the shortage of glass bottles of all descriptions. The glass works have repeatedly refused to accept orders under the pretext that present orders will take months to complete. Delivery in three, four or even more months could not be guaranteed, and when orders were accepted, the acceptance was accompanied by far-reaching limitations. Consequently a large number of firms of the pharmaceutical industry were able to obtain delivery of only half of the amount of bottles actually required. But while the German manufacturers were unable to secure delivery of bottles for their own use, the exports of glassware showed a steady increase every month. The supply of glands for the manufacture of organotherapeutic pre-parations proved inadequate, and it has become increas-ingly difficult to obtain the raw materials required in this branch of the pharmaceutical industry. Foreigners offer prices far in excess of those current in Germany, thereby securing the available material. The difficulty in obtaining the experimental animals has also had an adverse effect on the preparation of bacteriological products. The total exports of pharmaceutical products amounted to about one-third of the exports in 1913.

Legal Reports

Education Act Fine.—At Broxton, on October 31, Mr. Joseph Walker, chemist and druggist, Malpas, was summoned for employing a boy under the age of fourteen, and so preventing him from attending school. The lad's father was also summoned for not sending him to school. The school attendance officer, giving evidence, said that this boy should have been left at school until Christmas. Mr. Walker, in the witness-box, said he had taken the boy as a pupil, and was training him as a chemist. His education was being continued, in so far as witness taught him chemistry, botany and other subjects. The Clerk: It all depends on what education means. Witness: I am teaching him to earn a living. The Clerk: That is no use, according to the Act. Witness went on to say he paid the lad 8s. a week. The Clerk remarked that the boy was employed in a trade. Witness: I beg your pardon; it is a profession. (Laughter.) Each of the defendants was fined 10s.

Bankruptcy Reports

Re A. & E. Carreras (Alfonso & Enrique Carreras, trading as), 207 King Street, London, W.C., Tooth-paste Manufacturers.—An application for an order of discharge was made to Mr. Registrar Hope at the London Bankruptcy Court on November 8 by these bankrupts, who failed last June. Mr. E. Parke, Official Receiver, reported that proofs to the amount of £27,041 had been tendered by creditors, but Mr. David Hart, the trustee, was at present unable to report the amount likely to be admitted for dividend purposes. He had realised £387 from the sale of the stock and collection of the book debts, and was endeavouring to dispose of the business as a going concern. He was, therefore, unable to report what total sum was likely to be received, but he did not anticipate sufficient would be realised to enable a dividend of 10s. in the £ to be paid. The discharge was opposed by the Official Receiver on various grounds, including rash and hazardous speculation. After hearing Mr. Kingham for the trustee and a solicitor for the bankrupts, His Honour upheld the report of the Official Receiver. He said he regarded it as a substantial case of rash and hazardous speculation in regard to the cinema venture, and he suspended the discharge in each case for three years. Order entered accordingly.

Gazette

Partnership Dissolved

Emerson, J. P., Isherwood, H., and Ford, W., Cross Lane, Radeliffe, Lancaster, drug-store proprietors, under the style of Street & Co., so far as concerns J. P. Emerson, and H. Isherwood.

CREPE VELPEAU BANDAGES are again obtainable from the R. H. Heward Co., surgical appliance manufacturers, Crown Road Works, Twickenham.

The effect of newspaper advertising on quality of salesmanship was raised at a conference of retail tradesmen at Preston held recently. A Liverpool delegate urged the need of an intensified policy of instruction of assistants in "the higher art of salesmanship," so that they might be the better able to deal with modern customers.

ABERDEEN.—At a meeting of the Burgh Insurance Committee, on October 25, it was reported that as the result of a doctor prescribing luminal tabloids the clerk had communicated with the Central Checking Bureau requesting observations on the prescribing of luminal as such, or under the chemical name. He had received a reply to the effect that any substance prescribed in tabloid form would be disallowed, since the word "tabloid" was a brand name. If the doctor had given the chemical name at the outset, or even stated luminal without putting on the tabloid form, the prescription could have been supplied through the channels of the National Health Insurance Acts.

New Companies

and Company News

P.C. means Private Company and R.O. Registered Office

AQUA BRENDA MANUFACTURING Co., LTD. (P.C.).—Capital, £1,000. Objects: To acquire the selling rights for Great Britain and elsewhere for an artificial mineral water invented and prepared by J. F. Woolley, Belgrave House, Belgrave Terrace, Newcastle-on-Tyne, known as "Aqua Brenda." R.O.: 13 Waterloo Street, Newcastle-on-Tyne.

Read's Pharmacy, Ltd. (P.C.).—Capital, £400. Objects: To carry on the business of chemists, druggists, opticians, dealers in photographic materials, surgical and scientific instruments, etc. The first directors are: A. E. Read and Mrs. F. C. R. Read, 21 Magdalen Road, Norwich; and C. I. Burns, 213 College Road, Norwich. R.O.: 21 Magdalen Road, Norwich.

ECONOMIC SOAP Co., LTD. (P.C.).—Capital, £1,000. Objects: To adopt an agreement with W. C. Kirby and to carry on the business of soap manufacturers, patentees, chemists, druggists, drysalters. etc. The first directors are: W. C. Kirby, Sunnyview, Norbury, S.W. 16; and C. H. Hurst, 26 Jamaica Road, Bermondsey, S.E. 16. R..: 27 Martin Lane, Cannon Street, London, E.C. 4.

Welsh's Products, Ltd. (P.C.).—Capital, £100. Objects To adopt an agreement with E. W. Welsh and to carry on the business of chemical manufacturers as formerly carried on by the said vendor of 6 Marine Avenue, N. Ferriby, E. Yorks, and elsewhere. The first directors are: E. W. Welsh, 7 Marine Avenue, North Ferriby, E. Yorks, and C. E. Girling, 34 Strand, W.C.2. R.O.: 34 Strand, London, W.C.

J. Sherman & Co., Ltd. (P.C.).—Capital, £2,000. Objects: To carry on the business of manufacturing chemists and refiners of oils, fats and greases of all kinds, etc. The first directors are: B. G. H. Chase, 124 Lansdowne Road, Tottenham, N. 17; R. H. Elleman, 111 Winchelsea Road, Tottenham, N. 17; and I. H. Robinson, "Oakhurst," 37 Church Lane, Hornsey, N. 8. R.O.: 1 Chesnut Road, Tottenham, London, N. 17.

LIFE SAVERS SWEETS, LTD. (P.C.).—Capital, £5,000. Objects: To acquire from Mint Products Company, Incorporated, of New York, the right to use the name "Life Saver," together with all their formulæ, for the manufacture of sweets of all kinds; to acquire the trademark of the Mint Products Co. registered under the Trade Marks Act, 1905 to 1919, and to carry on the business of manufacturers and importers of and dealers in sweets, chewing-gum and confectionery of all kinds, etc. Solicitors: Redden & Booth, 17 Victoria Street, London, S.W. 1.

Maximon, Ltd. (P.C.).—Capital, £20,000. Objects: To carry on the business of engineers, manufacturers of and dealers in lacquer, shellac, varnish, alcohol, methylated and other spirits, oils, paint, vulcanite, scientific chemicals and colours, ship or other compositions, optical, electric and scientific apparatus and instruments, medical, surgical and other implements, etc. The first directors are: J. L. Simon, 21 Panton Street, S.W.1; H. G. Harper, 40 Ambrose Road, Golders Green, N.W.; L. A. Allen, 67 St. Quentin's Avenue, West Kensington; and Professor H. M. Lefroy, "West Brook House," Keston, Qualification, £100. Solicitors: Norman, Hart & Mitchell, 21 Panton Street, London, S.W. 1.

Brunner Mond & Co., Ltd.—The directors have decided to declare an interim dividend on the ordinary shares for the half-year ended September 30, at the rate of 7½ per cent. per annum. This compares with interim dividends at 5 per cent. for the three previous years.

Companies which may be wound up.—The names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register and the companies dissolved three months after October 27: Kitson's Eureka Disinfectants Co., Ltd.; Litto Perfumery Co., Ltd.; Pearson's (Cash Chemists), Ltd.; Walbrook Pharmacy, Ltd.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the October Analytical Exercise

The powder distributed to students on October 10 contained eight parts by weight of sodium chloride, one part of sodium hydrogen carbonate, and one part of sodium hydrogen tartrate. The calculated composition of such a mixture is:

Na	***	•••			3 5.5
Cl		***	•••		48.5
CO, C,Ĥ, H			• • •	•••	7.1
$C_{4}H_{4}$	O_2			•••	7.8
			• • •	•••	0.2
H_2O	* * *			• • •	0.9
				~	
				:	100.0

The powder contained also, as impurities, distinct traces of magnesium and of the sulphuric acid radical.

Samples of the powder were distributed to forty-six students, and twenty reports were sent in for examination. The writers of all these reports detected the sodium and the hydrochloric acid radical, but the tartaric and the carbonic acid radicals were missed in eight and in nine cases respectively. Seven students detected the trace of magnesium, while only three detected that of the sulphuric acid radical. The evolution of water in moderate quantity when the powder was gently heated in a dry tube was overlooked in eleven instances. This water was partly hygroscopic moisture, partly hydrate water from the sodium bi-tartrate, and probably, in some cases, water evolved during the incipient decomposition of this bi-tartrate; and, while its quantity was not great, it should not have escaped the notice of an attentive observer.

A few carefully applied and properly interpreted preliminary tests gave most students a fair idea of the general characters of the powder and useful information respecting some probable constituents. It dissolved completely in water with slow evolution, in the cold, of bubbles of carbon dioxide, due to the interaction of the bi-carbonate with the bi-tartrate. This gas evolution was greatly hastened by heating or by the addition of a dilute acid. It was overlooked entirely, however, by-a surprisingly large number of students, while those who observed it were not all able to prove that it was due to the decomposition of a carbonate.

Several other failures which were common to a number of students may, with advantage, be shortly referred to.

Potassium was reported in numerous instances because the examination of the flame coloration by means of a blue glass seemed to indicate its presence. When the flame was observed, however, through a sufficiently intensely coloured blue glass, no vestige of purple coloration could be discerned. The erroneous conclusions drawn by students were almost certainly due to the fact that most modern blue-glasses are not coloured through and through, but have merely an exceedingly thin blue layer on one surface, and that this layer is insufficient to cut off the yellow sodium flame entirely. Blue glass to be used in connection with the flame test should be tested with a sodium salt known to be free from potassium, and, if found wanting, two or more thicknesses, which have been proved sufficient, should be employed.

The magnesium and the sulphuric acid radical were present in small quantity only, and were most liable to be overlooked unless tested for with care. Both the precipitate of ammonium magnesium phosphate and that of barium sulphate often require to be waited for, when dilute solutions are concerned, and that was notably the case in this analysis. When sufficient time was allowed, precipitates formed which established the presence of both impurities beyond doubt.

In a few cases the evolution of acetic acid or of sulbhur dioxide was reported as a result of heating the powder with concentrated sulphuric acid. The gas actually evolved in this test consisted almost entirely of hydrochloric acid, the pungency of which is commonly ascribed to acetic acid or sulphur dioxide by students who are unaware of the likelihood of this mistake being made, or who are not sufficiently experienced to distinguish these gases.

In the absence of salts yielding any precipitate with sodium carbonate the boiling of the powder with this substance and water, in preparing a solution to be tested for acid radicals, was altogether needless, and it may have been worse than needless in some cases, if the carbonate was not quite pure, by introducing new impurities.

To distinguish between a tartrate and a citrate caused trouble to some students. The special test for a tartrate with resorcinol and sulphuric acid and that for a citrate with mercuric sulphate and potassium permanganate gave results which left no room for doubt as to which was present.

PRIZES

The First Prize for the best analysis has been awarded to:

EMERIC ALFRED ECCLES, 9 Margaret Street, Oswald-twistle.

The Second Prize has been awarded to:

E. Goodwin, 11 Union Street, Accrington.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES

E. A. Eccles	(1st prize)	88	A.D.C		70
E. Goodwin	(2nd prize)	87	Sinigrin		70
Floramye		84	Uno		69
Lactie		84	Aspiring Chemist		67
Mafco			Plus 4		62
Zymase		82	E.P.N		61
P.O.P			Fortunalis	•••	59
Caglio		77	Câon		54
Bittersweet			Limit		52
Fcrbyne			Test		51

To Correspondents

E. A. Eccles.—Repetition of the test you applied for ammonium did not give any positive indication. May free ammonia in the air of the room have changed the colour of the red litmus paper, or could the paper itself have come into contact with the sodium hydroxide in the test tube?

E. Goodwin.—Preparation of a sodium carbonate solution was needless in the analysis, since the substance was readily soluble in water and did not yield any appreciable precipitate when boiled with solution of sodium carbonate; indeed, it was probably disadvantageous to introduce sodium carbonate at all, because the latter often contains traces of impurities.

FLORAMYE.—The powder did not contain potassium or calcium in recognisable quantity. The latter of these may have been introduced into your analysis in tap water; concerning the former, see the general remarks above.

concerning the former, see the general remarks above.

Lactic.—Your statements regarding potassium were so explicit that we applied the chloroplatinic acid test with the greatest care; but we did not obtain any indication of the presence even of traces of potassium. Some confusion exists in your report regarding the precipitate produced in the aqueous solution of the powder on adding silver nitrate, the precipitate being represented in one place as soluble and in another as partly insoluble in nitric acid. The style of writing a report which you have adopted is a very usual one, and is at least as good as any other, showing the tests applied and their results in concise form.

results in concise form.

MAFCO.—Proof should have been sought, by means of calcium or barium hydroxide, that the gas evolved by the action of dilute sulphuric acid was carbon dioxide. The crackling which you attributed to the presence of a chlorate was due to decrepitation of sodium chloride

rystals. You should examine carefully the reactions of powder containing a chloride and a small proportion of tartrate, with a view to ascertaining how to establish the presence of the latter.

Caglio .- Had you applied some of the special distinguishing tests for a citrate and a tartrate, it is almost certain you would have got clear evidence of the presence of the latter. The test with calcium chloride, hot and

cold, does not always prove satisfactory.

BITTERSWEET.—You appear to have mistaken decrepitation for deflagration, and to have been too easily satisfied that a chlorate was present. It is difficult to understand how you came to report the chloride as a "trace," seeing that 80 per cent. of the powder consisted of sodium

FERBYNE.—Always state the solvents employed in preparing solutions for analysis. Sulphur dioxide was not evolved when the powder was treated with hydrochloric acid and, even if it had been, that would not have indicated the presence of a sulphide. Delicate testing should have enabled you to recognise carbon dioxide as the gas evolved. Bromide was not present in recognisable quantity.

A.D.C.—See the reply immediately preceding with regard to evolution of sulphur dioxide and presence of

bromide.

SINIGRIN.-In the known presence of organic matter, ignition to destroy this should have been carried out, as a routine proceeding, before adding the group reagents for the iron group. The evolution of carbon dioxide on mixing the powder with dilute hydrochloric or sulphuric acid was sufficiently conspicuous to be observed in a carefully conducted test.

Uno.—The test for an oxalate which you applied in the systematic examination for acids did not yield, in our

experience, the result which you report.

Aspiring Chemist.—The test for tartrate which you applied is not a specially delicate one, although it seems to have given you a clear enough result in the present

analysis. Citrate was not present. E.P.N.—A fuller preliminary examination should have been made and details of the testing for metallic radicals should have been given. Your report of the systematic

examination for the latter is too summary.

FORTUNALIS.—The sodium carbonate extract must have been incompletely neutralised, otherwise it could not have given the precipitate with ferric chloride which led you to report a benzoate.

Caon.—Read the first sentence of the reply to "Bitter-

LIMIT AND TEST .- You will find it instructive to prepare a mixture in imitation of the powder sent you and to practise upon, it until you thoroughly understand how you overlooked some constituents and why you supposed you had detected others which were not present.

Society of Public Analysts

Ar a meeting of the Society of Public Analysts, held on November 1, Mr. P. A. Ellis Richards (President) in the chair, a paper on *The Colorimetric Estimation of Pyrogallol, Gallotannin and Gallic Acid* was read by Mr. C. Ainsworth Mitchell, M.A., F.I.C. The author has devised a ferrous tartrate reagent which can be used for the detection and estimation of pyrogallol, gallotannin and gallic acid. The violet coloration produced in the reaction is due to the pyrogallic group in these substances and, applied quantitatively, affords a measure of that group in different compounds. The reaction throws light on the constitution of gallotannin. The results obtained with it do not agree with the long-accepted formula for gallotannic acid or with the formula of Emil Fischer's synthetic gallotannin, but are much more in accordance synthetic gallotannin, but are much more in accordance with the formula recently suggested by Nierenstein, at any rate in the case of tannin from China galls, and they decide a doubtful point in connection with that formula. In using the reagent for the estimation of gallotannin in the presence of gallic acid the substances are estimated together colorimetrically in terms of gallic acid to the substances are estimated together colorimetrically in terms of gallic acid or pyrogallol. The tannin is then precipitated with quinine hydrochloride and the gallic acid again estimated in the filtrate. The difference between the two results,

multiplied by a factor, gives the gallotannin. The method has been applied to the estimation of tannin and gallic acid in various natural and commercial products, such as galls, tannin extracts, myrobalans, divi-divi, tannin lozenges, tea, etc. It has also been used to follow the course of the enzymic hydrolysis of gallotannin, and to study the nature of the changes which occur in the technical process of roasting myrobalans. The Estimation of Narcotine and Papaverine in Opium was next described by Messrs. H. E. Annett, D.Sc., F.I.C., and M. N. Bose, M.A. The authors being engaged in experiments on poppy selection with a view to the production of medicinal opium of high quality have found it necessary to devise processes for the estimation of the principal alkaloids of opium, which can be carried out on the very small quantities of the drug (e.g., 1 to 2 gm.) obtainable from the few plants produced in such selection experiments. In the case of narcotine and papaverine they have utilised an old observation of Plugge's that, on addition of sodium acetate to an aqueous opium extract, narcotine, papaverine and narceine are precipitated. The authors find that, given the right conditions, the first two are precipitated completely, that the narceine carried down at the same time can be washed away with water, and that in the washed precipitate, after further purification, narcotine can be estimated polarimetrically. A paper on The Estimation of Codeine was read by Messrs. H. E. Annett, D.Sc., F.I.C., and R. R. Sanghi. This is an improved and simplified form of the process described by Annett and Sen in 1920, in which the codeine is extracted by toluene from an aqueous alkaline extract of opium, converted into the hydrochloride, purified by re-extraction with toluene, and finally converted into re-extraction with toluene, and maily converted into hydrochloride and weighed as such. Mr. J. R. Nicholls, B.Sc., F.I.C., read a paper on *The Estimation of Morphine*. If two volumes of 50 per cent. alcohol are shaken with one of chloroform and allowed to separate, the two layers are about equal in volume, the upper being about 33 per cent. alcohol and the lower layer having an approximate chloroform-alcohol ratio of 2:1. If the 50 per cent. alcohol contains morphine liberated by ammonia, the base distributes itself between the two layers so that about 85 per cent. of the total morphine is in the lower layer. When this layer is run off the addition of half a volume of alcohol to the upper layer brings it to approximately 50 per cent. alcohol again, and after shaking with one volume of chloroform the second lower layer contains about 85 per cent. of the remaining morphine. Three such extractions, therefore, move over 99 per cent. of the base, and in practice four extractions will only be necessary to remove more than 0.1 gm. of morphine. The presence of the alcohol retards or prevents the crystallisation of the base from the upper layer, and ensures a rapid separation. The combined extracts can easily be evaporated on the steam bath. For general application of this method of extraction other alkaloids are removed by means of ether and chloroform from a suitably prepared aqueous solution made alkaline with sodium, potassium or calcium hydroxide. One volume of the solution is mixed with one volume of alcohol, the fixed alkalinity removed by a slight excess of ammonium sulphate, and the morphine extracted as described. Small amounts of other substances may also be removed, but these do not interfere with the estimation of the morphine either by titration or colorimetrically or polarimetrically. Further notes were given on the Estimation of Potassium; By Perchlorate and Cobaltinitrite Methods, by Mr. R. L. Morris, F.I.C. This paper is a continuation of a previous paper given in 1920 by the same author. A modification suitable for the direct estimation of potash in the presence of phosphates of calcium, magnesium, iron, etc., was described. It is stated that sulphates should always be removed and a method of precipitating these by barium chloride is put forward which reduces the usual loss of potash in the barium sulphate precipitate to negligible amounts. Drushel's modification of the cobaltinitrite-permanganate process was shown to give trustworthy results, especially for small amounts of potash, but some experience is necessary. Half-saturated sodium chloride solution should be used for the final washing of the precipitate, and sulphates have no influence on results.

Income-tax Accounts

A LECTURE, entitled "The Preparation of Accounts for Income Tax," was delivered by Mr. W. J. Williams, A.C.I.S., chemist and druggist, on November 8, to the Liverpool Chemists' Association. The lecture was looked forward to with great interest, Mr. Williams having been called into consultation by pharmacists who had found

difficulty in making their income-tax returns, and members seldom seen at Association meetings made a point of being present. The following were the principal tables distributed at the meeting, and upon which comments were made by Mr. Williams:—

Bank	4 11111111] 28	1		
Sundries	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 8 6	23/27		
Gas, Electric Light	2. s. d. 3 111 0 3 111 5	5 2 5	21/22		
Postage, Printing Statny	3	2 4 1	20		
Rent, Rates, Taxes In surance	31 2 2 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	67 10 6	16/19		
Repairs and Renewals		3 8 6	15		
Wages and N.H.I.	α, αμοο α, ομ α α	6 14 0	14	-	
Private Account	v;	13 15 9	Folio 2		
Stock Purchases	3. 3. 3. 4. 45	212 11 11		280	15
Cash	8. 8. 4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	189 15 3	9 011		300 4 0
Bank	8. s. d. 1110 0 0 111 5 0 111	287 18 10	23	11	360 0 0
Discount	2 0 0 16 0 2 3 3 4.	3 1 3	287 18 10	189 15 3	480 15 4
Particulars	By Advertising. New Fra Co	28	Balances		
Date	Jan. 2 2				
Daily Cash Receipts	2. 3. 4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	190 18 0	ı	I	1
Weekly Cash Totals	3. 46 8. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Folio 13	109 6 0	190 18 0	300 4 0
Accounts	£ 5.0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	. 1	i	109 6	
Discount		1	1	5 1	Folio 28
Bank	अ 8	1	1	360	360
Particulars	Folio To Balances				
Date	Jan. 1922 111 122 113 113 114 114				

BALANCE SHEET AS AT	31 _{ST} DECEMBER, 1921	FIXTURES AND FITTINGS
LIABILITIES Sundry Creditors	Assers £ Fixtures and Fittings 500 Stock-in-Trade 750 Sundry Debtors 100	3 1921 Dec. £ s. d. 31 To Balance 500 0 0
	Balance—Bank 200 Cash 50	STOCK ACCOUNT
£1,600	£1,600	4 1921 1922
TRADING AND PROFIT	AND LOSS ACCOUNT	Dec. 31 To Balance 750 0 0 Jan. 31 By Transfer P. A/c 29 750 0 0
29 1922 £ s. d.	1922 £ s. d.	Ian.
Jan. 1 To Stock on 750 0 0 hand . 4 111 12 6 31 , Purchases . 1 174 3 9	31 By Credit Sales 1 31 , Cash Sales 13 31 , Stock on	31 To Stock on hand 29 300 0 0
31 ,, Gross Profit 29	hand 4 800 0 0 °	BOUGHT LEDGER ACCOUNTS (i.e. Personal Accounts)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1922 £ s. d.	G. H. & Co.
Jan. 31 To Wages 14 6 14 0	Jan. 31 By Gross Profit 29 174 3 9 " Creditors' discts, 28 3 1 3	1922 Jan. 4 To Cash and Dis. 16/ 1 32 6 0 31 By Balance 32 6 0 1922 Jan. 31 , Goods 1 25 7 2
Insurance . 19 3 13 6 Printing, Stationery,		L. M. & Co.
and Post- age . 20 2 4 0 Gas . 21 1 11 0 Electric light 22 3 11 5 Telephone 23 6 0 0 Ph. Cte.Exps. 24 0 16 3 Advertising 25 0 7 6 Trade Subs. 26 1 10 0		1922 Jan. 10 To Cash and Dis, 45/3 . 1 45 5 3 1922 Jan. 31 By Balance 45 5 3 1922 Jan. 31 ,, Goods . 1 31 4 11
" Licences 27 0 15 0 Debtors'		N. O. & Co.
discts 28 0 5 1 82 12 3 £177 5 0	£177 5 0	7 1922 Jan. 1 70 5 9 31 By Balance 70 5 9
1922 £ s. d. Jan. To Balance	1922 £ s. d. Jan. By Nat. trad-	1922 Jan. 26 ,, Goods 1 21 5 7
31 for Tax 29 93 17 3	31 ing profit 29 82 12 3 Income Tax 29 11 5 0	P. R. & Co.
93 17 3	93 17 3	1922
INCOME	TAX	Jan. 26 To Cash 1 5 s. d. Dec. 25 s. d. 31 By Balance 64 14 11 1922
18 1922 Jan. To Cash D 1 £ s. d. 11 5 0	1922 Jan. 31 By P/I A/c 29 £ s. d. 11 5 0	S. T. & Co. 9 S. T. & Co. 1921
BALANCE SHEET AT	31 _{st} JANUARY, 1922	Dec.
Liabilities.	Assets.	1922 Jan. 31 ,, Goods ., 1 19 8 7
£ s. d. Sundry Creditors 149 0 7 Capital 1,350 0 0 Current A/c 1,350 0 0 £82 12s. 3d.	Fixtures and Fittings . 500 0 0 Stock in	SOLD LEDGER
£82 12s. 3d. Less drawings £13 15s. 9d. 68 16 6	Trade 800 0 0 Sundry Debtor 85 7 2 Balance in	10 A. B. 1921 1922
	Bank 72 1 2 Cash 110 8 9	31 To Balance 15 12 6 1 By Cash and
1,567 17 1	£1,567 17 1	1922 LDas, 6d 1 15 12 6
CAPITAL	ACCOUNT	31 , Goods 1 4 7 6
1	1921 £ s. d Dec. 31 By Balance , 1,350 0 0	11 C. D. 1921 Dec. 31 To Balance 8 8 7 5 By Cash and 1922 Dis. 4/7 1 8 8 7
CURRENT	ACCOUNT	Jan. 9 , Goods 1 6 4 9
2 1922	1922	INSURANCE COMMITTEE
Jan. 31 To Cash 1 13 15 9 68 16 6 82 12 3	Jan. £ s. d. 31 By Profit and Loss A/c 29 82 12 3 82 12 3	12 1921 Dec. 31 To Balance 680 do. 750 1922 Jan. 7 By Cash 1 35 10 0
	Feb. 1 By Balance., 2 68 16 6	Jan. 31 ,, Goods 650 1 34 6 @

PURCHASES JOURNAL.

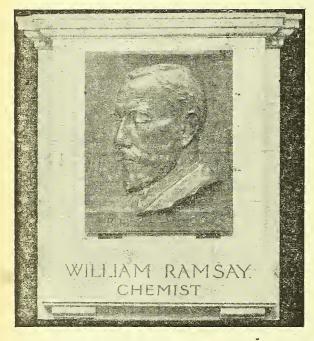
1922 31 — 26 27 31	G. H. & Co. L. M. & Co. N. O. & Co. P. R. & Co. S. T. & Co.	6-9 6-0 9-9 6-8	Janu	UARY.		0-0 0-0 0-0 0-0 0-0	5 6 7 8 9	$ \begin{vmatrix} 25 & 7 & 2 \\ 31 & 4 & 11 \\ -21 & 5 & 7 \\ 14 & 6 & 3 \\ 19 & 8 & 7 \\ \hline$
		SAL	ES J	OURN	AL.			
1922 31 9 31	A. B	••	Janu	JARY.	**		10 11 12	4 7 6 6 4 9 34 6 0

PRIVATE LEDGER ACCOUNTS WERE ALSO SHOWN FOR:

(1) Sales; (2) purchases; (3) wages and N.H.I.; (4) repairs and renewals \$ (5) rent; (6) rates and taxes; (7) insurances; (8) printing, stationery, postage; (9) gas; (10) electric light; (11) telephone; (12) pharmaceutical conference expenses; (13) advertising; (14) trade subscriptions; (15) licenses; (16) discounts.

Ramsay Memorial

In Westminster Abbey, on November 2, the Dukc of York unveiled a memorial tablet to the late Professor Sir William Ramsay, K.C.B., F.R.S. For the purpose of the unveiling the memorial was temporarily set up under the memorial of Sir Isaac Newton,



on the north side of the chancel screen. Its final position is to be below the tablets to J. P. Joule and J. D. Hooker on the wall of the north ambulatory. The Dean of Westminster, in accepting the memorial, described Sir William Ramsay as "the most famous chemist of our century."

REFLECTIONS, the house-organ of International Icilma Trading Co., Ltd., is again being published after an interval of over twelve months. The concluding instalment of the "Story of Icilma," dealing with the period 1911 to date, is given in the current issue, which forms the last number of Volume 2

It is announced that King George V. Merchant Seamen's Hospital at Malta will be opened by the Governor (Lord Plumer), on November 30. The medical staff were entertained at 12 Palace Court, London, W., on November 1, when Lord Methuen (late Governor of Malta) bade them farewell. They sailed on November 8.

Personalities

MR. CHARLES E. SEBAG-MONTEFIORE has been elected Master of the Spectaclemakers' Company for the coming year. Sir Charles C. Wakefield is the new Upper Warden, and Mr. Harry Hylton-Foster the Renter Warden.

Wor. Bro. Edwin Walters, P.M., Townley Parker Lodge, No. 1,083, East Lancashire, manager of Potter & Clarke, Ltd., was, at Bolton, on November 3, invested as Past Provincial Grand Deacon.

At the East Lancs. Provincial Lodge meeting held at Bolton on November 3, W. Bro. Percy Knott, chemist and druggist, P.M. and secretary of No. 221 St. John's, was invested with the degree of Past Provincial Grand Junior Warden.

Mr. Sydney Jamieson, who is at present resident in Glasgow, is representing the speciality department of the Anglo-American Oil Co., Ltd., in Scotland. Mr. Jamieson has just been elected a member of the Glasgow Pharmacy Club.

At a meeting of the Harpenden Lodge, No. 4314, W. Bro. F. W. Freeman, Ph.C., Radlett, installed his successor into the chair and was presented with a P.M. jewel. Bro. W. J. Busby, chemist and druggist (J. Busby, Ltd.), Harpenden, was re-appointed secretary.

Mr. H. T. Morley, chemist and druggist, Love Lane, Stockport, claims the distinction of being the first retail pharmacist from the Manchester district to travel to London by air. The journey took somewhat longer than usual on the day selected (November 1), on account of adverse winds, but Mr. Morley praises the comfort of the service.

In a recent issue of the "South-Eastern Gazette" mention is made of the fact that the newly-appointed Lord Chancellor is the second son of the late Mr. Thomas Cave, who about the middle of last century was in business in High Street, Maidstone, under the style of Cave & Rook, wholesale druggists and dispensing chemists. The late Mr. Cave appears to have left Maidstone about the time of the birth of his illustrious son. He was afterwards Sheriff of the City of London, and became M.P. for Barnstaple.

Mr. E. D. Barclay, M.C., B.A., the youngest son of the late Sir Thomas Barclay, has been elected a director of Southall Bros. & Barclay, Ltd., Birmingham. Mr. Barclay was educated at Tonbridge and Cambridge University. During the war he served in Mesopotamia and in France, where he lost a leg. He was awarded the Military Cross for conduct which was officially described as "gallant and fearless." His early business training was acquired in the office of a large firm of export merchants in London, and subsequently he joined "Southalls," taking charge of the export department.

MR. EDWARD THOMAS, chemist and druggist, Yorkshire Street, Rochdale, had an unusual experience on November 3 in connection with the occurrence of an aldermanic vacancy in the Rochdale Town Council. All such vacancies are filled by seniority; but in this case there were two candidates—Councillor E. Thomas and Councillor W. Watson, wholesale grocer, both of whom were elected to the Council on November 1, 1908. Each chivalrously offered to stand down in favour of the other, but ultimately it was decided to draw lots. The name drawn was that of Councillor Watson.

was that of Councillor Watson.

The following pharmacists and members of the drugtrade are among those who have been successful in the recent municipal elections:—Messrs. J. A. Alban Atkin, Hampstead, London, N.W.; H. W. Blackadar, Portsmouth; C. H. Bullock (managing director, W. T. Cole & Sons, Ltd.), Weymouth; A. E. Coverdale, Ph.C., Worcester; W. J. Craven, Evesham; A. E. Farrow, Old Brompton; W. J. Gregory, Weymouth (Mayor-elect); W. Lean, Ph.C., Burton-on-Trent; J. Hague, Lincoln; A. J. Hunt, Greenwich; W. J. Lewis, Portsmouth; H. J. Martin, Christchurch; W. Maskew, Ph.C., Hertford; F. R. Newbury (managing director, F. Newbury & Sons, Ltd.), Finsbury, London, N.; J. W. Normansell, Ph.C., Wells; J. W. Roberts, Holborn, London, W.C.; J. & Snell, Accrington; J. W. Stainer, Ph.C., Folkestone.

Marriages

GILLESPIE—LEWIS.—At Heath Town Wesleyan Church, Wolverhampton, recently, Alexander Paterson Gillespie, son of the late Mr. A. J. Gillespie, University Avenue, Belfast, to Caroline Mary Lewis, chemist and druggist, second daughter of Mr. John Lewis, The Verlands, Prestand Real Wesleyshampton. wood Road, Wolverhampton.

HALABY—HADDAD.—At Damascus, on October 1, Antoine Halaby, of A. Halaby & Bros., pharmaciens et droguistes, Jerusalem, to Mademoiselle Hind Haddad.

HAYMAN—KIRBY.—At St. Hilda's Church, Crofton Park, on October 30, Victor Frederick Hayman, chemist and druggist, eldest son of Mr. J. Hayman, Sidmouth, Devon, to Winifred, second daughter of Mr. H. Kirby, Forest Hill.

Deaths

Bebb.—At Clacton-on-Sea, on November 6, after a lengthy illness. Mr. Arthur Percival Bebb, chemist and druggist, 45, Rosemary Road, aged forty. Mr. Bebb, who was very popular in the district, was an enthusiastic golfer and billiard player, and a member of the Clacton Club. He leaves a widow and one son.

CROSSLEY.—At 143 Walmersley Road, Bury, Lancs., recently, Mr. Samuel Crossley, son of the late Mr. E.

Crossley, chemist, Princess Street.

GARDAM.—On November 5, Mr. William John Gardam, chemist and druggist, Sutton and Clock Face, St. Helens, Lancs. Mr. Gardam, who qualified in 1903, acquired the business of Mr. T. S. Welch, at Sutton, in 1918.

JARRETT.-At Glasfryn, Trawsfynydd, on November 3, Mr. Jarret Roberts Jarrett, chemist and druggist. Jarrett, who qualified in 1901, was well known Mr. widely respected in Merionethshire.

MITCHELL.—On November 5, Margaret, wife of Mr.

R. L. Mitchell, chemist, Durban, Natal.

MOORSHEAD.—At Portsmouth, on November 2, MOORSHEAD.—At Portsmouth, on November 2, suddenly, Mr. Charles Moorshead, chemist and druggist, 108 High Street, aged eighty-five. Mr. Moorshead, who came of an old Cornish family, commenced business in Portsmonth at the beginning of 1858. He was a man of many-sided activity, having interests as a town councillor, in almost every kind of sport, in antiquarian lore and in politics, in addition to the management of a successful business. He had just proposed a vote of confidence in a candidate at a political meeting when he confidence in a candidate at a political meeting when he collapsed, and on the arrival of medical assistance it was found that he had passed away. He leaves three sons, all of whom hold commissions in the Navy, and three daughters.

Shillcock.—At 26 High Road, East Finchley, London, N., the residence of his daughter, Mrs. Alexander, on November 6, Mr. Arthur Shillcock, chemist and drug-gist, upwards of forty years representative of Meggeson

& Co., Bermondsey, aged seventy-five.

Talbot.—At 530 Kingston Road, Raynes Park, London, S.W. 19, on October 27, Mr. William Widdowson Talbot, chemist and druggist, aged sixty. (See p. 655.) Mr. Talbot, who carried on business in South-West London for some years, is survived by a widow and a daughter.

TAYLOR.—At 14 Market Street, Earlestown, recently, Mr. William Carey Taylor, chemist and druggist, aged

fifty-six.

TAYLOR.—At Richmond, Surrey, on November 3, Mr. John James Taylor, retired chemist and druggist, aged

seventy-four.

WIDGERY.—At 442 Uxbridge Road, London, W.12, on October 31, Mr. John Widgery, chemist and druggist, aged sixty. Mr. Widgery, who was a Devonian, came to London in 1999, as a said to the Mr. Minute College Pool London in 1999. London in 1882 as assistant to Mr. Minett, Golborne Road, North Kensington, whose business he subsequently purchased. He opened the Uxbridge Road shop in 1908. For some years Mr. Widgery was a member of the Kensington Borough Council, in which his untiring zeal earned him the highest regard. He was also prominently

associated with the London County Council schools, serving as chairman of the Worington Road group until the time of his death. As a member of the 20th London Volunteer Corps, he did much useful work in the war; he was also well known in the Masonic world, and last May was installed as Worshipful Master of the Amherst Lodge, Sevenoaks. Mr. Widgery was an enthusiast at bowls, and for a long period was captain of the team of the Western Pharmacists' Association; his fine presence will be greatly missed at social gatherings of that and other Metropolitan Associations. He leaves a widow, a son, and two daughters. The funeral service was held on November 6, at Oaklands Church, and the interment at Kensal Rise Cemetery. The service at the Church was conducted by the Rev. Idris Evans, assisted by the Rev. James Cregan, and the Rev. J. Daisly. Many floral tributes were sent by various bodies with which Mr. Many floral Widgery had been connected, including the Committee of the Western Pharmacists' Association, the chemists of Hammersmith and Shepherd's Bush, "Ucal" chemists, the Amherst Lodge of Freemasons, and the teachers and children of the Worington Road group of schools. Chemists were represented by Messrs. G. W. Evans, R. R. Pratt, G. Roe, B. R. Wilkinson, J. A. Riley, S. Sturton, P. S. Windwood, Dan Davies, J. Hearle, Taylor, and W. Wilkinson.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, November 13

Sheffield Pharmaceutical and Chemical Society. Church House, St. James' Street, at 8.30 p.m. Prof. C. J. Patten, M.A., M.D., D.Sc., on "The Purport of the Skeleton."

Tuesday, November 14

Ealing Pharmacists' Association, Eden's Restaurant, High Street, at 8.30 p.m. Mr. Jenkins, on "Possibilities."

Wednesday, November 15

Birmingham Pharmaceutical Association, Grand Hotel, Inangural meeting. At 6.20 to 6.50 p.m., reception by the President and Mrs. Marshall. Dinner at 7 p.m. Tickets (10s. each) from the

Mrs. Marshall. Dinner at 7 p.m. Tickets (10s. each) from the Secretary.

Edinburgh Cherrists', Assistants and Apprentices' Association, 36 York Place, at 8 p.m. Inaugural address: "The Future of Pharmacy," by the President, Mr. Thomas A. Smith.

Western Pharmacists' Association, Connaught Rooms, Great Queen Street, London, W.C., 7 p.m. Annual dinner.

Thursday, November 16

National Association of Women Pharmacists (London Group). Visit to London Hospital Dispensary.

Visit to London Hospital Dispensary.

Script Sports Club, Anderton's Hotel, Fleet Street, London, E.C. Annual dinner. Tickets (7s. 6d. each) from the Secretary, Mr. T. W. Cleave. Morning dress.

The Chemical Society, Burlington House, Piccadilly, London, W. 1, at 8 p.m. Scientific and informal meetings.

London (North-East) Pharmaceutical Association, St. John's Institute, Urswick Road, Hackney, at 3 p.m. Lecturette:

"The Ancient History of Familiar Drugs," by Mr. J. Noble.

Friday, November 17

nchester Pharmaceutical Association, Council Chambers, Houldsworth Hall, Deansgate, at 8.30 p.m. Mr. H. G. Bell, M.Sc., on "Wireless Broadcasting." Demonstrations if prac-ticable. [Note alteration of date.]

ticable. [Note alteration of date.]

BATH PHARMACEUTICAL ASSOCIATION.—The annual dinner will be held on November 30, when the Association will entertain Mr. D. J. Williams, F.C.S., Ph.C., Principal of the Bath College of Pharmacy, and past-President of the Association. Old students and friends of Mr. Williams invited. Tickets 5s. 6d. each, obtainable from the College. Morning dress.

London (North) Pharmaceutical. Association.—A whist-drive, arranged by Hornsey chemists, will be beld on November 23 at St. George's Hall, Muswell Hill. Tickets (2s. 6d. each) from Mr. D. Anderson, Broadway Parade, Croueb End, N.8.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN (NORTH BRITISH BRANCH).—The opening evening meeting will be held at 36 York Place, Edinburgh, on November 24, at 8 p.m. A Paper on "Scotland's Contribution to Chemistry" will be given by James C. Irvine, C.B.E., Ph.D., D.S., F.R.S. (Principal of St. Andrew's University).

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION.—A Whist drive (first social event of the season) will be held at Concord House, High Street, Wandsworth. Tickets (3s. each) from Miss Borrowman.

Trade Notes

CLINICAL THERMOMETERS are advertised in this issue by Davis & Co., 47, Red Lion Street, Clerkenwell, London, E.C.1.

BIRMO WATER is a Swiss natural aperient which is being introduced by Birmo, 9, Noel Street, London, W.1. The particulars are given in the advertisement in this number.

Mellin's Food.—Reductions are announced in the price of Mellin's Food, Mellin's Lacto and Mellin's Food Biscuits. These come in force to chemists from November 8 and to the public on December 1.

Jose Serrano Wines are the subject of the advertisement in this issue of Ayrton, Saunders & Co., Ltd., Liverpool, which chemists who have wine licences should bear in mind when ordering stocks of wine for Christmas.

A CHARMING BOOKLET has been produced by James Woolley, Sons & Co., Ltd., 76, Deansgate, Manchester, as an advertisement for their surgical and scientific instrument department. The history of the business is given in a concise manner, and the illustrations are good. A copy can be had by any chemist on application.

GLAXO.—The following words in the advertisement of Glaxo will be welcomed by many chemists: "We take this opportunity of stating our firm intention not only to protect the price of Glaxo, but also to guarantee the pharmacist a margin of not less than 20 per cent. on every tin he sells." Other interesting statements will be noted.

"New-Skin" comes of age.—Mr. J. E. Garratt, 96 Southwark Street, London, S.E. 1, makes the interesting announcement that it is twenty-one years since "New-Skin" was introduced. To celebrate the event, Mr. Garratt has made up special bonus parcels, of which particulars are given in the advertisement. There is also to be a new advertising campaign to liven things up.

OLYMPIC EMBROCATION.—Johnson & Sons (Manufacturing Chemists), Ltd., 23 Cross Street, Finsbury, London, E.C.2, have issued a showcard for Olympic Embrocation which contains the title of the article below a picture of an athlete using the embrocation. It measures 12 in. by 9 in., and is printed in colours. Chemists who have not received a copy are invited to apply for one.

Newbern's Catalogue.—The new edition of the general catalogue of F. Newbery & Sons, Ltd., 27-28, Charterhouse Square, London, E.C.1, has been issued this week. The work is larger than the preceding editions, and is generally an advance in style of production. The first part is devoted to druggists' sundries and the other largest section is occupied by patent medicines. Smaller sections are given over to photographic goods and packed lines. In the introductory part there are four pages devoted to notes on Medicine Stamp Duty which chemists can read with advantage.

KI-UMA.—We referred recently to the advertisements of Ki-uma which are appearing in the C. & D., and this week we have had a call from the inventor of the remedy. He had a romantic story to tell us of its origin which we were able to confirm. It appears that during the inventor's residence on the West Coast of Africa chance brought him in contact with a native remedy for rheumatism and skin disorders, the secret of which was well-guarded. Being convinced from the results that the remedy was worth investigating, natives were induced first to obtain a supply of the medicament—a vegetable fat—and, afterwards a supply of the berries from which the fat is extracted. The preliminary trials of the article showed that the fat is very readily absorbed by the skin, and a Bath chemist was asked to prepare it in a form suitable for sale. The result was Ki-uma, as now placed on the market—an elegant pink ointment with pleasant odour. It is the ready absorbability which the inventor thinks has much to do with the good results that have followed its use in rheumatism, sciatica and other rheumatic disorders. We were shown a sheaf of complimentary letters from well-known people, including

several medical men of standing, which seems to show that Ki-uma has the power of quickly alleviating the ills referred to. The syndicate which has placed the remedy on the market is anxious that chemists should look upon Ki-uma as a real addition to the armamentarium of the treatment of rheumatism and not merely a new form of any drug at present used. Literature and show-cartons are supplied.

ADVERTISING MATTER.—We have inspected a great variety of advertising matter which Thomas Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C., supply in connection with Forhan's and Musterole. The showcard for Forhan's for the gums is in the form of a tryptich, the wording and illustrations



bringing out the fact that pyorrhoa, so common nowadays, is prevented by using Forhan's. The Musterole showcards are produced in colour, one being shown here in black-and-white. The one shown measures 10½ by 7½ in, and there are larger editions containing the same picture with additional wording. Supplies of material for window-dressing are also available of an attractive character, including a pyramid of dummy packages of Musterole. This advertising matter is supplied to chemists who stock these proprietaries.

Information Department INFORMATION WANTED

B/42. Captain Appleby's
Mange Lotion
A/211. Coghill's Iodine
C/811. Diaporin
W/411. German colour label
printers
L/2710. Hepitol Water
W/211. "Isma" Poudre Neige
W/511. Lavulose

A/42. "Massine" (for removing make-up)
S/711. Neothesine
R/5010. Nielk's Tablets and pastilles
A/111. "Sanital" fablets
L/811. "Snowene" in blocks and liquid
B/811. Verminine

INFORMATION SUPPLIED

 $\begin{array}{c|cccc} Dalmahoy's & Essence. & E/111 \\ Frigilene & colourless & fluid \\ S/111 & Grossmith's & Perfumery. \\ W/2610 & Volume & Corn & discs. & B/711 \\ Lactol. & M/3010 & Liquid & soap & dispensers. \\ W/611 & & & & & & & & \\ \end{array}$

" Move all." D/111
Page-Barke-'s Hair Lotion.
S/111
Phenoline. A/3010
Protox. H/2110
"Stix-it." Q/611
Veldt Cream. B/711
"Zenobia." W/2610

Observations and Reflections

By Xrayser II.

the Business Done

at the Council-meeting for this month vas largely complimentary, and so far as it was so calls or little comment. Miss Buchanan's welcome home will be endorsed by everybody, and her report of her work n Canada will be awaited with interest. Perhaps the best result of her visit will be the "strengthening of he bonds of brotherhood" between Canadian pharmaists and ourselves in the manner indicated in her conluding remarks in response to the Council's welcome. The point raised by the letter of the South Wales and Monmouthshire Federation is met, as the secretary said, y the fact that nobody can be registered as an appren-ice of the Society who has not passed the Preliminary xamination. What more anybody can reasonably require t is difficult to see, and the Society neither has nor t is difficult to see, and the Society neither has nor ught to have the power of preventing any pharmacist who wishes to do so from taking an apprentice without examination. If this is what the writers of the letter wish to do the zeal of the Society has indeed eaten hem up. It is questionable whether a man has any moral right to take an apprentice who is not likely to e able to pass the Preliminary, or whom he cannot and does not intend to help in the endeavour to do so, and every apprentice so taken ought of course to be warned that the passing of the examination is a condiion of being allowed to qualify, but circumstances have requently arisen (and even under the new educational irrangements we are awaiting may arise again) in which such apprenticeship is not only defensible but laudable. The responsibility of undertaking it will naturally be reater when the standard of the Preliminary is raised.

"Hanging Over our Heads"

is a phrase suggestive of the sword of Damocles, and the secretary of the Lancaster and District Association might have expressed himself in a kindlier fashion with regard to the Pharmaceutical Society's organisation scheme. The delay in the payment of subscriptions which he attributes to this scheme may be pleaded in excuse of a disrespectful expression or two if the delay is due to the Society, but if it is the Association that hangs back the case is a little different. The Association may quite reasonably dislike the scheme, but they should either accept it or reject it. I do not pretend to know where the fault lies, but the remedy for the existing state of things seems to be in the Association's own hands. I gather, indeed, from your report that acceptance is virtually agreed upon, but Mr. Shaddock's attitude seems to indicate a lack of cordiality on the Association's part which is hardly an omen of good for the branch.

Your Advice to Assistants

seeking situations is admirable throughout, and will be welcomed by employers too, as likely to facilitate their choice among many applicants. May I suggest that you should follow it up by a word of advice to them also? They are not, indeed, so much in need of guidance, for just now, at any rate, judging by your advertisement columns, they hold the whip hand, and it must be much less difficult to get an assistant than a situation. It seems to me, however, that employers' advertisements often leave something to be desired, and their letters are sometimes as vague and verbose as any assistant's could be. On second thoughts, however, I should say that your directions to assistants will serve almost equally well for employers. What you tell the assistant to say is just what the employer is concerned to know, and about all that he should ask. An assistant's character and qualities cannot be judged from anything he may himself say. Except as indicating the sort of work for which he is wanted, it is useless to say that he must be good at this or at that; he is not likely to cry stinking fish, and the nature of the advertiser's business might be more concisely conveyed in another way.

The Origin of Hungary Water,

like the ancestry of Jeames de la Pluche, is "wrop in mistry," but that it is a spirit of rosemary, simple or compound, is unquestionable. Lemery, who accepts the legend of its use by the somewhat mythical Elizabeth (or Isabella) Queen of Hungary, gives this as the original receipt: "Aqua vitæ distilled four times, thirty ounces; rosemary flowers, twenty ounces; enclose for fifty hours in a close-stopped vessel, and distil in an alembic in Balneo Mariæ." "The Toilet of Flora" (1779) has two receipts, one similar to the above, and another in which pennyroyal and marjoram flowers are added to the rosemary. "Le Dictionnaire des Ménages" (Paris, 1820) also has two receipts, one a spirit of rosemary and orange flowers distilled together, the other a mixture of essence of rosemary mixed with orange flower water and a few drops of oil of neroli. Other and later receipts might be quoted. Rennie gives preference to French Hungary Water, which is, he says, made of rosemary flowers alone, but this must evidently be taken with a grain of salt.

The 16th-Century Inventory

printed in the C. & D. of October 28 presents many points of interest; but I can in a single paragraph speak only of one. Let us take the first item, sassafras. It is rather extraordinary to find this among the drugs of a provincial apothecary at so early a date. We are told in "Pharmacographia" that it was introduced into England "in the time of Gerarde," who has an article on it in the edition of 1597, three years after the date of this inventory, in which we are told that a Mr. Wilmot, of Bow, had a tree of it growing in his garden. The earliest known mention of the drug in English occurs, however, some twenty years earlier, but Dodoens and Clusius apparently knew nothing of it when engaged on the herbals upon which Lyte's is founded. That it was then costly is clear; the price founded. That it was then costly is clear; the per ounce given in the inventory representing about shillings (possibly more) of our money. Gerard calls it the ague-tree. The only official preparation of the drug was, I believe, the Electuarium è Sassafras, in which it was compounded with cinnamon, nutmegs, gold and ambergris, etc., the gold and ambergris being, however, afterwards omitted. Quincy says sassafras was not much used except popularly in tea, which suffered in credit from the scandal of its being "good in venereal cases." As saloop this tea continued popular, especially, as readers of Charles Lamb will remember, with chimney sweeps, until pretty late in last century. Lamb says he never had the courage to taste it himself, 'a cautious premonition to the olfactories constantly whispering to me that my stomach must infallibly, with all due courtesy, decline it."

The Quince

was as much in favour with our English fore-fathers, both in medicine and cookery, as it was with the ancients, and it was evidently a good deal more extensively cultivated here in former times than it is now. Nearly all the marmalades (or, as he calls them, marmulates) in the "The Closet of Sir Kenelm Digby Opened" are made of quinces (none of oranges), and besides these he has "Gellies" of quince, quince pastes, a quiddany of quinces, and a receipt for preserving quinces all the year round. Syrup of quinces he refers to in passing only, but this had a place in our Pharmacopæia. Quince was also an important ingredient in other official syrups, in diagrydium, and in many of the more complicated compositions of the London College. Whether the quince was the apple of love of Canticles or not, it figures in that character in many classic stories. It was by means of a quince that Hippomenes at the instigation of Aphrodite won the race with. Atalanta, and that Acontius gained Cydippe for his bride. Solon is said to have decreed that Grecian brides on the bridal night should eat quinces, perhaps on the principle upon which the "matrimony" cakes of Victorian times were made of marmalade—a reminder that bitter is mingled with sweet in the holy estate.

With Only One Writing The End of Drudgery

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THE McCaskey Register Co., Watford

(2)

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Imported and Expert d by WILCOX, JOZEAU & CO., 15, Great St. Andrew Street, London, W.C. 2.

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FOREIGN PRESCRIPTIONS PHARMACISTS.

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Turin, 1911.

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X-Ray & Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERACES.

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SCIENTIFIC APPARATUS.

(Chemical, Physical and Photographic), Balances and Weights. CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES

Sales of Medicated Wines and Spirits

THE report which appears in the C. & D., October 28, p. 591, of the abortive prosecution of a firm of chemists on a charge of unlicensed selling of intoxicating liquor, ought to bring home to chemists the formidable nature of the quicksands through which a chemist has to tread

when he engages in the sale of medicated articles which contain spirits. In this case the liquor, which was sold under the name of "Blood Wine," was shown to contain 25.5 per cent. of proof spirit by volume. The analyst who gave evidence for the prosecution expressed the opinion that the liquor was an intoxicating liquor—a view which if it were to be taken in the sense in which the words are in law to be understood would have made a conviction inevitable. But, at the same time, he admitted it was a medicated wine containing spirits, and it was, in fact, what is pharmaceutically and commercially known as vin. ferri. cit., in the production of which port wine was used. The magistrate, after having had an opportunity of considering a good deal of irrelevant matter, accepted the position that the liquor in question was a medicated wine, and, while expressing the opinion that the persons charged were "sailing near the wind," dismissed the case. In considering questions of this kind, as they are likely to affect chemists, it is important to keep clearly in mind a distinction which appears to have been lost sight of in the course of this case. Wines are not in all respects on the same footing as spirits. Under an Excise Act, any liquor sold or offered for sale as foreign wine or under a name by which foreign wine is usually designated or sold is to be taken to be wine, and an Excise licence is required for its sale. And, by virtue of the fact that such a licence is required for its sale, it becomes an intoxicating liquor within the meaning of the ordinary law of licensing. The Commissioners of Customs and Excise may, however, remove it from this category by ordering that where certain conditions are complied with, the liquor may be sold without an Excise licence. These conditions, as laid down in official Regulations, are: (a) That the liquor for sale shall be prepared in accordance with the directions given in the British Pharmacopæia; (b) that it shall be sold only by duly qualified chemists and druggists; and (c) that the liquor when sold must be labelled as to dose, etc., so as to show that it is intended to be used as a medicine and not as a beverage. The effect of the Regulation is in fact that wine in respect of which these conditions are fulfilled ceases to be a wine, and becomes, for purposes of licensing law, a medicine. If. however, it contains alcohol in excess of 2 per cent. of proof spirit, it has still to be considered as a spirituous preparation, with a possible liability to the requirement of an Excise. and consequently a magistrate's, licence for its sale. And at this point the distinctive law applicable to spirituous medicinal preparations comes into play. Under an Act passed so far back as the 1742-43 Session of Parliament, and imposing restrictions on the sale of spirits, it was laid down: "That this Act or anything therein contained shall not extend to any physicians, apothecaries, surgeons, or chemists, as to any spirits or spirituous liquors which they may use in the preparation or making up of medicines for sick, lame, or distempered persons only." It will therefore be seen that in the case of vinous preparations such as this "Blood Wine" it is essential that they should be so medicated as to remove them from the category of wines into that of medicines; and, further, as regards preparations whether vinous or spirituous, the exemption from the necessity of a licence for their sale is allowed only to duly-qualified chemists and druggists. Having regard to our present hampering restrictions on trading in spirits of any description, the privilege extended in this way to chemists is an important one, which those who enjoy it should be careful to do nothing to imperil.

The Advance in Shellac

WITHIN the last few weeks conditions in the shellac trade have experienced a decided reversal from the generally disturbed and depressed state of the market earlier in the year. In our issue of August 19 last, commenting on the fall in shellac, as a result of the hold up of the demand and the dislocation of the Calcutta market, we indicated that market possibilities were largely dependent on developments there, which we suggested were problematical and to some extent subject to the rate of exchange. There was since then a further substantial break in prices amounting to, roughly, 50s. per cwt. in spot delivery, down to about 280s. for usual standard T.N. orange quality, as recorded last month, while the decline in forward positions was not quite so pronounced. There have been ample reasons for the sensational recovery experienced, especially with the turn of the month. sharp change of feeling in the direction of a revival of confidence was first brought about by successive smart rallies in the Calcutta price, which had been kept down in the neighbourbood of 130 rupees during the first half of October, and has lately been lifted to about 165 rupees. This resulted in the c.i.f. price for shipment over the end of this year being advanced to fully 310s. per cwt. There has been a very considerable increase in the London deliveries in the course of October, and the run upon the warehouse stocks, having become intensified, these have dwindled fast and enabled holders to adopt more aggressive views, the spot price having risen to about 350s., with business done last week at an advance varying up to 40s. per cwt. The depletion of the London stocks will inevitably go a good deal further. In fact, this threatens to lead to more acute scarcity, as extremely limited quantities are affoat to this side. The whole of the "affoats" to all ports, in fact, is abnormally restricted, while the bulk is intended for American ports. There is no doubt that American consumption is very large, owing to the greater activity of the paint and varnish trades witnessed for months past. So far as can be gathered, American importers were rather backward in making provision for future requirements during the recent depression at Calcutta, and having become apprehensive of being caught seriously short of supplies on account of the absurdly small Calcutta shipments for October of 12,888 cwt. to all ports, compared with 41,958 cwt. for the same month last year, it is not surprising that urgent inquiries from America have been forced upon the London market lately. The fact cannot be too strongly emphasised that very tight statistical conditions have to be faced over the balance of this year. So far as London is concerned, the particulars available so far of parcels afloat indicate that only a few comparatively small lots can be expected to come in in the near future, and in the meantime the deliveries continue under pressure, with the result that under the dearth of arrivals the stocks, which were reduced during last month by 3,604 cases to 8,064 cases, have since been eaten into appreciably further. The market still stands at very considerably under the extreme highest point seen in the earlier months of this year, when practically all positions were raised to about 400s. per cwt., but it is only to be expected that history will repeat itself, as there is not much chance of relief, especially under a continuous feverish trade demand. Even in the event of more normal quantities being shipped from Calcutta to London, this and next month, these would in any case not become available until January cr February. We give below figures (in cases) indicating the supplies that have come in within the first ten months

of this year, together with deliveries over that period, as well as comparisons for the same period in the previous

•		-	-	-	~
	Oct.	Jan.	Jan.	Jan.	Jan.
	1922	to Oct.	to Oct.	to Oct.	to Oct.
		1922	1921	1920	1919
Landings	2,092	45,786	43,001	42,719	57,204
Deliveries	5,696	48,771	44,579	39,044	57,710
Stocks (end of Oct.)	_	8,064	10,645	13,882	26,352

It will be seen that the landings for last month at 2,092 cases were exceedingly reduced, or the lowest of any month this year, comparing with 9,092 cases, the abnormally heavy returns for May last, and the exceptionally big total of 11,698 cases for August last. The fact that incomings from month to month vary so widely is, of course, apt to render the market very sensitive, and the same argument applies to the deliveries whenever receipts fall off seriously, as has been again the case just lately. The deliveries, which had been generally restricted in a most doubtful and depressed market in recent months, have under the circumstances referred to recovered to dimensions more in line with current consumption, the total for October amounting to 5,696 cases. The monthly average for the ten months represents 4,877 cases, this comparing with 4,458 cases, 3,904 cases, and 5,771 cases, respectively, for the same period in 1921, 1920, and 1919. The enlargement of trade requirements filled at this centre for home consumption and re-export, compared with the two pre-war years, 1912 and 1913, is reflected in the particulars below of deliveries and monthly averages for some few years:-

		London Deliveries	Monthly . Average
1912	• •	45,829 cases	3,819 cases
1913		51,061 ,,	4,254 ,,
1920		50,271 ,,	4,189 ,,
1921		53,409 ,,	4,451 ,,
1922 (10 mon	ths)	48.771	4,877 ,,

The last monthly average for the current year; therefore, compares very favourably with that for the previous years mentioned, although the average for the first seven months of this year, or prior to the big slump in the price, was as much as 5,075 cases. The need for an increased production is becoming more desirable than ever, so as to cope with the world's greater demands, and thus to permit consumers to cover their wants at less extravagant prices. Shellac is now finding its way to many of the Continental ports, and even South America direct, and there is not much prospect of the London stocks being restored to any great extent for some considerable time, seeing that America is an anxious buyer. Fine shellac is very hard to get hold of, even at prices ranging up to as much as 460s.

Quinine and Cinnamon Capsules

There is a large demand for capsules containing quinine and cinnamon oil as a remedy for influenza, but manufacturers and retailers are being handicapped as regards price by a class of capsules, which, instead of containing cinnamon oil, contains powdered cinnamon bark. price of the latter is naturally lower and the medicinal properties much inferior. We suggest that the two varieties should be very clearly distinguished, or the public may have just cause for complaining that they have not received capsules of the quality and kind demanded. Chemists can assist in explaining to customers that the medicinal effects of a few grains of powdered cinnamon bark is greatly inferior to that of the oil.

Thyroid Gland Preparation

The new price current of pills and tablets issued b Evans Sons Lescher & Webb, Ltd., Liverpool, contain the following reference to the question of thyroid glan preparations:

Medication by thyroid gland is confused by the various modes of listing and labelling employed by different manifacturers, and by the adoption of standards and other equivalents, which are in the nature of assumptions rather that facts. It is our object to remove this ambiguity, and whave therefore arranged our list in a manner such as whope will enable the practitioner to write his prescription without fear of their being misinterpreted. Thyroid proparations are administered on the basis of three forms: (the true gland substance in dry condition, such as the thyroideum siccum of the Pharmacopeia; (ii) a preparation standardised to a given iodine content; (iii) an equivaler of the fresh gland, which may be a dry preparation or som form of liquid extract. An idea has become prevalent the any one of these preparations can be referred to in term of the other; but that is quite erroneous. All fresh gland preparations should be referred to exclusively in terms of the fresh gland, and they should be manufactured directly from the fresh substance, whether they be tablets or clixing. This we do at our physiological laboratories at Runcor It is quite special work, and is carried on there under the direction of our medical superintendent. The products will be found in our special B. & H. list.

It is a custom of the trade to state that one grain of drathyroid gland is equivalent to five grains of the fresh substance, but this is not correct. The real relation is slight.

thyroid gland is equivalent to five grains of the fresh surstance, but this is not correct. The real relation is slightly variable, the average being nearer to one part of dry representing about 3\frac{3}{4} parts of the fresh. In consequence of this the difficulty arises that tablets may be prepared with the dosc on the basis either of the dry gland, of the assume but incorrect equivalent, or of the exact equivalent as determined experimentally with each batch of fresh gland empleyed. In our opinion it is the proper thing to adopt definite quantity of a definite substance as the basis o dosage, and we therefore issue our thyroid tablets containing specified amounts of thyroideum siccum B.P. By preserily ing these tablets, the doctor is giving a specific quantity of a known body, with all ambiguity removed except such a is inherent to the action of the drug itself. These tablet are prepared from thyroid gland of the highest quality and of high iodine content. In some quarters it is held that the iodine containing body of the gland is the substance to which its activity is due. In other directions, again, the whole of the properties of the gland are not considered to be measured in this way, and preference is given to the gland substance itself as represented in our ordinary tablet. But to meet the former consideration, we prepare a standardised powder containing 0.2 per cent, of iodine in organic ombination, so that one grain contains 1/500th of a grain of thyroidal iodine. It is to be understood that no equivalent is implied as between this preparation and any particular quantity of dry or fresh gland substance. Standard ised powder represents a variable quantity of the actual gland, which would again vary as between different manu facturers using different supplies of gland but it offers constant dosage of thyroidal iodine. Practitioners whe desire to treat on the basis of thyroidal iodine, rether that on that of gland substance alone, can do so by prescribing "Standardised tablets." thyroid gland is equivalent to five grains of the fresh substance, but this is not correct. The real relation is slightly

Wills

MR. BENJAMIN SALTER, chemist and druggist, Abbey Mead, Tavistock, Devon, formerly of Castle Street Shrewsbury, who died on July 19, has left £11,976 10s. 7d gross and £11,190 12s. 7d. net. Probate is granted to his sons, Albert Joseph Salter, Neville Street, Abergavenny Bertram Charles Salter, Tavistock, and Frank Henry Salter, The Crescent. Scarborough. His property is divided between his children. divided between his children.

Mr. WILLIAM JAMES JONES, chemist, 258 Newport Road, Cardiff, who died on September 27, left estate of the gross value of £3,593 6s. 7d., with net personalty £850 6s. 7d. Probate of his will has been granted to his widow, Mrs. Henrietta Louisa Jones. The testator left his property to his wife during widowhood, with remainder to his children, Florence Harriet Jones, George Lones, Rortie Harris Jones, and Mauvice Edgar Rees Jones, Bertie Harris Jones, and Maurice Edgar Jones, in equal shares.

Pharmaceutical Society Of Great Britain

Evening Meeting

HE first evening meeting of the Pharmaceutical ociety's present series was held in the lecture-theatre t 17 Bloomsbury Square, London, W.C., on Novemer 7. The President (Mr. E. T. Neathercoat) was in he chair, with Mr. E. White on his right and Sir Villiam Glyn-Jones on his left. There was an audience the moderate size including a large proportion of young moderate size, including a large proportion of young i moderate size, including a large proportion of young nembers and student-associates. Among well-known scople present were Mr. F. Bascombe, Mr. William browne, Dr. G. Coull, Mr. H. Deane, Mr. H. Finnenore, Mr. A. W. Gerrard, Professor H. G. Greenish, Mr. F. H. Glew, Mr. W. F. Gulliver, Mr. C. H. Hamphire, Mr. Harry Martin, Mr. A. R. Melhuish, Mr. angford Moore, Mr. J. Wickliffe Peck, Mr. P. A. W. Leff, Mr. Herbert Skinner, and Mr. G. A. Tocher.

The PRESIDENT, in opening the proceedings, extended welcome to those present. The interest shown during he session was, he remarked, quite a sufficient justification for the policy adopted by the Council in reviving he evening meetings. They were fortunate, on the present occasion, in getting Mr. White for the opening deless. It was quite approcessory to introduce Mr. ddress. It was quite unnecessary to introduce Mr. White in the Society's house. There was no man living who had a record in pharmaceutical public life that would ompare with that of Mr. White. (Applause).

Mr. White delivered the following address, illustrated

with lantern slides, diagrams, and experiments, on

The Monazite Industry in its Relation to the Rare Earths and Radio-activity.

[ABSTRACT]

The subject centres round a mineral not very familiar with the general public. From monazite sand are btained thorium nitrate, which is used for gas mantles, and mesothorium, a body similar to radium. Monazite sand is distributed fairly widely throughout the world n small quantities, for which search has been made in connection with the gas-mantle industry. There are not more than two places—Brazil and Southern India—in which commercially workable quantities are found. Of hese the district with which we are concerned is Travanore, at the extreme south of India. Travancore has the argest proportion of Christians in India in its popula-tion. The business visitor finds them a nice, hard-working people. In a warm country like India many things are not missed by the people, and it is possible to keep a wife and family on 1s. 6d. a day. There is little discontent, the people apparently being much better off than people earning high wages in the slums of London.
On the seashore the separation of minerals is more or less

of the seasone the separation of inherans is here of less regulated by the ebb and flow of the tide, the lighter grains being washed away and the heavier ones falling to the bottom. Monazite sand has a density of 4.8 5, ordinary quartz being 2.4. As seen in the slide before us, grains of monazite sand have a rounded outline and are more or less regular. They have the following percentage compagition.

centage composition:

In the district in which the sand is found, coconut and palmyra trees grow freely. On the screen we see a party examining ground on the seashore in order to see if there is sufficient monazite sand to be worth working. With experience and a good lens one can readily tell whether it is worth while to put down plant. The sand, where commercially workable, exists to a depth of 8 to 10 ft., below which level are found peat and débris, together with corpses and ancient coins. In the English

company's factory about 500 people are employed. The first operation consists in treating the sand with water, which is pumped up into sluice boxes in which the sand has been arranged. The sand is stirred up while the water is flowing over it, an operation at which the natives water is flowing over it, an operation at which the natives become very skilful, and the water is eventually recovered and used again. The sand is spread out in the sun to dry. After this the sand, which consists of various minerals, is treated by an electro-magnetic method [illustrated on the blackboard by diagram], the result of which is to separate the grains. The sand is conveyed on an endless band within the range of powerful magnets, which separate it into four streams consisting respectively. which separate it into four streams consisting respectively of ilmenite, quartz, zircon and monazite. By this means the proportion of monazite present in the grains is increased from 10 per cent. to 98 per cent. at one operation. The work is done by natives with a little European control

Ilmenite, one of the products just mentioned, is a very interesting mineral; it is a titanate of iron, and enters into titanium white, the commercial use of which is to replace white lead in paints. White lead and zinc oxide replace white lead in paints. White lead and zinc oxide are both in favour as pigments on account of their covering power. Titanium white is recommended for interiors, as it is innocuous and is not blackened by town air. Zircon is used to form zirconium oxide, a very refractory substance useful in the construction of furnaces. The monazite sand is brought home for the preparation of thorium nitrate, which is a very soluble salt. The process of manufacture of gas-mantles is well known in outline. The ash of pure thorium nitrate is hard and brittle, but a very small percentage of sulphuric acid renders it suitable for its purpose. Pure thorium nitrate is not luminous, but the slightest impurity renders it luminous. In commercial practice 1 per cent. of cerium nitrate added to the thorium salt gives the maximum luminosity. Any impurity other than cerium is deleterious. The same amount of gas in the old fish-tail burner which would yield a light of 16 candle-power yields a light of 70 candle-power with a gas-mantle. From 1 kilogram of thorium nitrate 600 to 800 gas-mantles can be made, equal to less than ½ gram of thorium oxide in each.

The proportion of mesothorium present in the raw material is very minute, 10 milligrams to a ton, and ir practice only 6 to 7 milligrams can be obtained. To obtain even this quantity would be impossible except for the fact that barium and mesothorium are inseparable by any chemical means. The process is roughly as follows:— One ton of the sand is mixed with $1\frac{1}{2}$ ton of sulphuric acid, mesothorium and barium sulphates come out together, and on filtering about 40 kilos. of the mixture is obtained, together with lead, silica, garnet, and so forth. Conversion into chloride is the next step, and, finally, the product is fractionally crystallised. It is not entirely clean, but has to be taken for what it is. Mesothorium is used for the same purposes as radium, but it disintegrates more rapidly. In four or five years it is reduced to half, whereas radium would occupy about 2,000 years in the same process. No one has yet obtained pure mesothorium salts. In all the minerals from which mesothorium is obtained there is a certain proportion of uranium present. Mesothorium is more active in some ways than radium, and greater precaution must be taken to protect workers from its rays. It enters, together with zinc sulphide, into the pigment for luminous figures on

Atoms change in a very mysterious manner, and are not stable in the way that was believed thirty years ago. Uranium after about ten changes of this kind issues in a substance resembling lead, and it is considered possible that potassium may be similarly changing at a much slower rate. It is now conceded that atoms need not necessarily have constant atomic weights, and this fact lends itself to the old theory of the transmutation of metals. Unfortunately, the change is invariably in a downward direction.

DISCUSSION AND VOTE OF THANKS

The President, in inviting discussion, remarked that the gathering had listened to a most instructive paper of a very thorough character, rendered the more interesting by the series of photographs shown. He congratulated Mr. White on the part played by him in the direction of

a most important industry. As for changes in the atom, some of those present did not mind, as that kind of thing "is all over with us now." (Laughter.)

Mr. F. HARRISON GLEW said he was glad to have the opportunity of expressing his deep appreciation of a most interesting and valuable lecture. Mr. White had been too modest. It ought to be known that various chemists of high reputation have failed to do what Mr. White and his company have done so successfully-to extract mesothorium. The importance of radio-activity was very great during the war: it was used in connection with night tactics and otherwise, and there was a time when the Ministry of Munitions was somewhat alarmed lest the supply of radium should be cut off. In no instance, however, was a ship carrying radium to this country sunk—and some ships brought as much as 2 grams. (Applause.) The Government policy of adopting radium was a sound onethe loss was practically 1 per cent. in a century, and the radium could be recovered. It had been his (the speaker's) duty to recover large quantities. If mesothorium had been used, it would have lost a considerable portion of its "life" in the same period; but for many purposes it was as good as radium, or better. A great deal of luminous paint made with mesothorium was coming into this country. The therapeutic employment of mesothorium

was, perhaps, its most important use.

Mr. A. W. Gerrard moved a vote of thanks to Mr.

White, who, he said, had done pharmacists a great service. Mr. White had brought them into or near to the fairyland of science, and lovers of science present must have been deeply pleased. He congratulated the lecturer on the work he had done. As pharmacists, the audience might have learned something about elutriation and have

obtained light on drug-grinding. (Applause.)

The vote was unanimously carried amid applause, and Mr. White briefly returned thanks.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1922, p. 277.

(From "The Trade-marks Journal," November 1, 1922.) (From "The Trade-marks Journal," November 1, 1922.)

COMBINATION OF ALCHEMICAL SIGNS: for medicinal chemicals
(3). By Texas Gulf Sulphur Co., 41. East 42nd Street,
Manhattan, New York, U.S.A. 428,472. (Associated.)

"Dacomi": for medicinal chemicals (3). By D. C. Mitchell,
62, Granby Street, Leicester. 428,921.

UNICORN DEVICE: for goods (48). By F. & A. Swanzy, Ltd.,
West Africa House, Kingsway, London, W.C.2. 422,502,

West Africa House, Kingsway, Iondon, W.2. 422,302, (Associated.)

"ARIMAL," "AYERISTOCRAT," "CGUR D'OR" and "APRES TOUT": for perfumery, etc. (43). By Harriet H. Ayer, Inc., 317-323. East 34th Street, New York, U.S.A. 423,324/325/326/328.

"PERMO-SILVER": for silvering solutions (50). By Crawford & Baker, 130, Renfield Street, Glasgow. 427,700.

(From "The Trade-marks Journal," November 8, 1922.) "Socony"; for chemicals (1). By Standard Oil Co. of New York, 26, Broadway, New York, U.S.A. 424,929. (Associated)

COBIN," with device, including robin on bough; for all goods (1). By Reckitt & Sons, Ltd., Dansom Lane, Huli. 428,843. (Associated.) " ROBIN,

423,645. (Associated.)

"INDANTHREN." under oval device, including letter "I." (letter "I." disclaimed); for chemicals (I). By Badische Anilin & Soda Fabrik, Ludwigshafen-on-Rhine, Germany. 428,992. (Associated.)

"TARZAN"; for goods (2) and (3). By H. F. E. Richardson, 67. Nightingale Lane, London, S.W.12. 426,419/420.

(Associated.)

" SANS "

"Sans"; for sanitary chemicals (2). By Aetna Products Co., 89, Beach Street, Boston, Mass, U.S.A. 427,463. "Claymore Brand" over picture of samc; for chemicals (2). By Craig & Rose, Ltd., 172, Leith Walk, Leith, Edinburgh. 427.253.

burgh. 427,253.

"ADCO," for artificial manures (2). By Agricultural Developments Co. (Pyrford), Ltd., 12, Spenser Road, Harpenden, Herts. 427,474.

"LINMOUR"; for medicinal chemicals (3) and for perfumery, etc. (48). By Lindsay & Gilmour, 11, Elm Row, Edinburgh. 427,977/978. (Associated.)

Associations' Winter Session

Belfast.—At a meeting held by the Ulster Retail Drug Trade Association, on November 2, A Five Months' Tom of Italy and North Africa was described in interesting detail by Mr. W. C. Dobbin, M.P.S.I. The lecture was illustrated by lantern views of photographs taken during the tour. Mr. W. E. Wilson (President) introduced Mr. T. W. McMullau, M.P., as chairman. Mr. Dobbin described the various places of interest which his party had visited. In Algiers, said the lecturer, there are almost a hundred pharmacies, among which very few window-displays are to be found. Proceeding to Biskra Constantine, and Tunis, they went on to Messina, in Sicily. The party then proceeded to Naples, Pompeii Florence and Rome, and Venice. The address concluded by a further reference to Switzerland, and the journey home via Paris. The proceedings terminated with votes of thanks to Mr. Dobbin, on the motion of Mr. James Tate seconded by Mr. W. J. Gibson, and to the chairman, or the motion of Mr. W. J. Hardy, supported by Mr. J. C Culbert. A vote of thanks to Mr. A. R. Hogg, who was in charge of the lantern, was accorded.

Cardiff.—The new president of the Cardiff Pharmacists Association is Mr. Reginald Davies, Penarth. [Corrected notice.]

London (S.E.).—A general meeting of the South Eastern Chemists' Association was held at Sydenham on November 1, when the President called upon Mr. Gibbon, of the Chief Engineer's Department, G.P.O., to give a lecture on Wireless Telephony and Broadcasting, illustrated with lantern slides. The address dealt with the first principles to the latest development, the great wire less station at Carnarvon, used for transatlantic work, a photograph of which was shown. At 9 p.m. communica-tion was established with Marconi House, who had arranged a special concert for the benefit of the Associa-Instrumental and vocal music was enjoyed, and a recitation was also clearly heard. Signals from ships at sea were also picked up and explained, causing much interest and amusement. The instruments, consisting of a four-valve receiver (etherphone) amplifier and loud speaker, were lent by Burndept, Ltd., Blackheath, and was under the expert supervision of Mr. Read (London manager) and Mr. Winton. The lantern was lent by Butcher, Curnow & Co., of Blackheath, and Mr. J. W. Hodges acted as operator. A short speech at the close was made by Mr. Milner, who proposed a vote of thanks to the various gentlemen and firms who had contributed so much to the evening's pleasure and instruction. It is proposed to hold a supper and smoking concert about the end of the present month.

Manchester.—The Manchester and Salford Branch of the Pharmaceutical Society held a committee meeting on November 3, when the following officers of the Provisional Committee were elected: Chairman, Mr. W. Kirkby, M.Sc.; Vice-Chairman, Mr. J. Cleworth; Treasurer, Mr. A. J. Pidd; Secretary, Mr. T. Miller. It was decided to hold a social and business meeting early in December.

West Ham.—At a largely attended meeting of the West Ham Association of Pharmacists, on October 26, an interesting lecture on Window Dressing, illustrated by lantern slides, was delivered by Mr. C. E. Whyatt (of the National Cash Register Co.). In his opening remarks the lecturer said that it is only in comparatively recent years that chemists first began to realise the recent years that chemists first began to realise the value of their windows. The window was an asset, and if properly utilised was equivalent as a salesman to an assistant. The first point to remember in dressing a window was something to attract attention. After drawing the attention of a passer-by, the next thing was to arouse interest. The window ought not to be overcrowded, and instead of having a large variety of articles of different kinds it is better to show only two or three things at a time and rearrange the window frequently. He considered that a window should be rearranged at least once a fortnight. He advocated window shows for articles in conjunction with press advertisements. Some very effective slides, showing window displays of Gibbs dentifrice, Pears' preparations, and others, were shown.

etail Pharmacists' Union

mingham.—The Branch Committee met on November r. H. H. Marshall in the chair. Among the business with was the proposal of the R.P.U. to set up p Executives, utilising, if agreed by them, the old rations. It was resolved that, in the event of the sed scheme being adopted, No. 2 (West) Electoral on should, in the opinion of the Branch, be divided, the old Federation, the West Midlands forming a on apart from Wales; and that, failing such division, Executive should be increased to at least twelve bers beside the ex-officio members suggested in the me. It was suggested that the three members of the ral Executives. A circular letter from the proprietors laxo was considered, and a proposal was passed that Pranch requests that, in any reorganisation scheme ed into by Glaxo, the rate of profit allowed to retail ists be not reduced.

Reviews of Books

ls and Drugs. By Henry G. Greenish, F.I.C., F.L.S. Third edition. 8½ in. by 5½ in. 386 pp.. with 209 illustrations. 18s. J. & A. Churchill, 7 Great Marlborough Street, London, W. 1.

ne 1923 edition of this inimitable work is to all ats and purposes a reprint of the 1910 edition. The cost of printing is given as the reason for not insing the size of the publication, in order not to it beyond the reach of students on account of iderations of cost. The book thus remains as it was—pical Greenish production of great practicability and id reasoning out of diagnostic characteristics. The alterations are merely technical. The fact that the k is so complete after a lapse of nearly thirteen years estimony to the thoroughness of the original survey to the slow decadence of interest in crude drugs, work is primarily one for students of pharmacy for the Institute of Chemistry examination in food drugs. Nevertheless, some sections, such as that on is, are of great importance in connection with staples as cotton, flax, jute and silk. The starches, and coffee and cocoa, are also products which will always to such a work a necessity in the technological mist's library. The book is typical of the drug-trade, obsolete and the important being dealt with in the e painstaking care, and little change being evident in existence.

mical Reactions and Their Equations. By Ingo W. D. Hackh, Ph.C., A.B. $7\frac{1}{2}$ in. by $4\frac{3}{4}$ in. 138 pp. 6s. Chapman & Hall, 11 Henrietta Street, Covent Garden, London, W.C. 2.

this little book is obviously intended for those unforate students of pharmacy and medicine who cannot elance "a chemical equation. This inability is due insufficient grounding in essentials, hence the endeavour learn them off by heart and confusion in the examinan room when the subject is not presented in the rthodox" manner. The author expounds very conely and in a praiseworthy manner the principles undering chemical equations, and the book, in conjunction has a sound elementary knowledge of chemistry, will illitate the solution of equations. In all some 440 lations of general interest are given, but the work is re than a mere reference list, the various types of ictions being classified and exemplified. Appendices on menclature, solubility of chemical compounds, and a stematic index to the equations should be very belpful the bemused student. The origin of the book in lifornia is obvious in the phonetic spelling of such ords as "sulfur." One always wonders if the student er works through the "horrible" exercises given in orks such as these.

Insurance Act Dispensing

Record of matters concerning Chemists' interes:s in the National Health Insurance Acts

Local Reports ENGLAND AND WALES

Hampshire.—The Insurance Committee, in consultation with the Panel and Pharmaceutical Committees, have agreed to adopt the use of the South-Western Area Formulary. It consists of about 250 formulas, with space for additions, which, pharmacists consider, are quite unnecessary. The Pharmaceutical Committee have resisted its introduction for twelve months. The agreement to adopt it is qualified by the following conditions: That all other formulas be abolished. That reference to prescriptions by means merely of a number be not allowed. That instructions should be given for the general use of a one-size bottle as far as possible (8-oz. bottles and ½-oz. doses). That directions for using the medicine be written in full by the doctor. It was also agreed to reprint a slip to be gummed into the formulary embodying the above arrangements, and the clerk, Dr. Freeman Williams and Mr. F. B. Wride were empowered to carry out the Committee's instructions. The following resolution, proposed by Mr. Wride and seconded by a doctor, was passed: "While agreeing to the adoption of the S.W.F., it is recommended that the medical officer of health take into consideration the preparation of a National Formulary after consultation with the British Medical Association and the Retail Pharmacists' Union.

Nottingham.—At a meeting of the Insurance Committee, held recently, it was announced that two chemists had been appointed to the panel. For the quarter ended June 30 dispensing-fees amounted to £1,558 18s. 5d, and the prescriptions totalled 77,192. The average ingredient price per prescription was 3.2d., dispensing-fee 4.9d.

Sheffield.—The case of a supposed deficiency in codliver oil in a certain preparation, about which some strictures were passed at a meeting of the Insurance Committee recently, has been before the Committee again. The proportion of cod-liver oil was shown to be 10.3 per cent. by weight of the whole, and Dr. A. E. Barnes pointed out that it should have been 15 per-cent. The wholesale house who supplied the preparation to the local chemist have, however, now pointed out that, owing to the difference in the density between cod-liver oil and malt extract, the proportion of 15 per cent. by volume required is equivalent to a proportion of 10.311 by weight, and that therefore the preparation was correctly dispensed. The city analyst has verified these particulars, and the Medical Benefit Sub-Committee have accepted the explanation as satisfactory. Mr. J. T. Appleton called attention to the matter, and said it was unfortunate that the observations of Dr. Barnes were made at the previous meeting, especially when the case was then eub judice. In dealing with such substances as malt and cod-liver oil, density, volume, specific gravity and weight had all to be taken into consideration. When the question was first raised he (Mr. Appleton) said that the question was first raised he (Mr. Appleton) said that the preparation was made in accordance with the British Pharmaceutical Codex, and the analyst's report had proved that his contention was correct. Dr. Barnes agreed that the preparation was now shown to be absolutely correct, but he complained that the matter had not been before the Panel Sub-Committee, and had been treated differently from other cases. the sub-committee were adopted. The minutes of

Scmerset.—At a meeting of the Insurance Committee, on October 28, it was reported that the number of prescriptions issued for the quarter ended June 30, 1922, was 44,493, at a cost of £2,010 8s. 3d.; average, 10.84d. For the same quarter of June, 1922, the number was 40,740, the cost £2,071 13s. 10d., average 12.204d.

EARLY CLOSING.—It is proposed that the following hours of closing shall be adopted by a closing order in Aberdare: Monday, Tuesday, Wednesday, 7 p.m.; Thursday, 1 p.m.; Friday, 7.30 p.m.; Saturday, 9 p.m.

General Council of Panel Chemists

A MEETING of the General Council of Panel Chemists (Scotland) was held at 36 York Place, Edinburgh, on November 1, 1922, Mr. G. Shiach Kitchin in the chair. The resignation of Mr. Balfour Reekie (Hamilton), who, for health reasons, had been advised to refrain from under-John Fraser (Dumfries) was received with regret, and Mr. John Fraser (Dumfries) was elected in his stead. The financial statement, audited by Mr. Peter Boa, was approved. The report of the Pharmacoutical Standing Committee was submitted, and included the annual report of the Central Checking Bureau (C. & D., September 16, p. 409). In connection with the Dangerous Drugs Act statistics, given at the same time, it was pointed out that approximately 135 lbs. of opium powder, 29 ounces of cocaine. 240 ounces of morphine, and 46 ounces of diamorphine are used annually in Scotland in National Health Insurance prescriptions. These quantities, multiplied by three, indicate approximately the total amount of these drugs used in Scotland in prescriptions annually. The statistics do not include what is used as medicinal remedies in dilutions lower than the Dangerous Drugs Act percentages, nor does it include cocaine used in dental anæsthetics. Mr. Guthrie (Clydebank) and Mr. Bethune (Inverness) having been appointed representatives of their respective Insurance Committees on the Drug Accounts Committee, it now included four Pharmaceutical members.

There was submitted, through the courtesy of the Central Checking Bureau, the latest statis as as to the drug accounts for the first eight months of 1922 compared with the corresponding period for 1921. These indicated for the Burghs an increase for 1922 of 119,001 prescription forms equal to 14 per cent., an increase in cost of £3,230 8s., equal to 6.6 per cent., and a decrease in the price per form of £9,9d., equal 7 per cent. For counties there is an increase of 76,439 forms, equal to 16 per cent., an increase in cost of £1,932 18s., equal to 6.5 per cent., and a decrease in the price per form of 1.14d., equal to 8.6 per cent. For the whole of Scotland there is increase of 195,440 forms, equal to 14.6 per cent., and a decrease in the price per form of 0.99d., equal to 7.6 per cent. It was noted that the influenza epidemic in January, 1922, was chiefly responsible for an increase of £5,924 19s. 3d. in the cost of drugs for that month as compared with January, 1921. Despite a large increase in the number of forms the total cost is practically what it was last year. The Drug Fund on the lower basis of 1s. 10d. per insured person is, therefore, probably sufficient to meet all the Drug Accounts for 1922 in full. It was necessary, however, to have regard to the possibility of another epidemic. Reference was made to recent difficulties by chemists questioning the pricing of prescriptions by the Central Checking Bureau. On inouiry it was found these alleged discrepancies were not well founded. It was agreed again to direct the attention of panel chemists to the necessity for keeping prescriptions for pensions' clinics, other areas, etc., separate and placing the first dispensed prescription always uppermost.

A question had been raised as to whether a panel chemist could supply a dangerous drug on an emergency list or stock order. As the drugs are used by the practitioner for treatment of his panel patients he is entitled to be in possession of the drugs for that purpose, and it is quite competent for a panel chemist to supply. It was pointed out that under recent legislation various Public Health Authorities had to make arrangements for the supply of medicines and medical and surgical appliances. It was strongly recommended that chemists should adhere to the scheme of collective bargaining in any arrangements for Pharmaceutical service in this connection. The work should be undertaken on the recognised scheme of National Health Insurance dispensing and the National Drug Tariff, the pricing and checking of all prescriptions to be done through the Central Checking Bureau. The Standing Committee having conferred with the Scottish Board of Health and the representatives of Scottish Insurance Committees, the following points had been unanimously agreed upon: [1] That the Drug Fund for 1923 shall continue to be constituted at the rate of 1s. 10d. per

insured person. (2) That the National Drug Tariff be reprinted as at January, 1923, with appendices in May and September. (3) That in pricing vaccines and serums the tariff scale of adding one-third to cost, plus a dispensing fee of 5d., be adhered to, with a proviso that where adding one-third exceeds 5s, the latter only should be added to cost, plus the usual dispensing fee of 5d. (4) That with the slight modification as to pricing vaccines and serums to meet an exceptional difficulty, and reserving all questions that may emerge when the time for revision arises, panel chemists should be recommended to continue Pharmaceutical service for 1923 on the basis of the existing contracts. The report was approved, and the four conclusions agreed upon at the Board of Health Conference were unanimously accepted. Mr. A. B. Gilmour, M.P.S., Superintendent of the Central Checking Bureau, who was present, gave valuable information on many important points. The Chairman expressed the high appreciation of panel chemists of the important work so efficiently done by Mr. Gilmour, and moved a vote of thanks, which was passed with acclamation.

Scottish Pharmaceutical Federation

THE Glasgow Branch of the Federation has sent a circular to the members of the Glasgow Town Council, the candidates for election, and the secretaries of Ward Committees, dealing with the question of the supply of medicines to tuberculous patients by the Public Health Department of the Glasgow Corporation (C. & D., November 4, p. 640). The main part of the circular is as follows:—

1. The Public Health Department is dispensing the medicines, etc., for tuberculous patients in its six public dispensaries. In doing so it is acting in opposition to the expressed request of the Scottish Board of Health, which desires this work to be done under the same system as the National Health Insurance. [A Scottish Board of Health Circular (I.D.B. No. 7), dated May 6, 1921, states: "Prescriptions for tuberculous insured persons will, no doubt, normally be dispensed by panel chemists, but I am to suggest that the Tuberculosis Authority should make arrangements whereby the prescriptions for all tuberculous persons (whether insured or not) shall be dispensed either by panel chemists or by chemists who are prepared to supply drags, etc., in accordance with the National Health Insurance Tariff."] The Glasgow Corporation method imposes an injustice much felt by the insured tuberculous patient, because (a) when he becomes an insured person under the National Health Insurance Act the Government specifically contracted that the medicines, etc., be prescribed by his own doctor and be obtained from any panel chemist; (b) in many cases he has a long distance to travel to the public dispensary, the service hours of which are not always suitable: and (c) the quality of service is much inferior to that obtaining under the National Health Insurance.

2. According to the Glasgow Corporation Police Accounts (Prevention of Tuberculosis) for 1920-21, there were 2.542 registered patients under tubercular treatment, whose total attendances numbered approximately 53,000, at a cost to the city of £5,841 13s. 11d. Assuming that each time the patient went to the dispensary he obtained a prescription of some sort, the average cost per prescription would be at the very least 2s. 2d. In the event of the prescription not being supplied at each visit the average cost would, of course, be higher.

3. Under the National Health Insurance system which is desired by the Scottish Board of Health, and taking an average of all the medicines, etc., supplied to tuberculous patients, these medicines could be supplied by the chemists at an average cost per prescription of 1s. 7½d.

4. From Paragraphs 2 and 3 it will be seen that this is a matter which affects the ratepayer very materially. Under the present Glasgow system, he is paying an average price of at least 2s. 2d per prescription, whereas under the National Health Insurance system the average price would be 1s. 7½d., a difference of 25 per cent. The point cannot be over-emphasised that the Corporation it doing this work in direct opposition to the expressed desire of the Scottish Board of Health, and at a greater cost to the ratepayer.

Practical Notes and Formulas

Massage Creams

		т.			
Sweet .milk	***	•••	9.00		1 gallon
Borax	•••	***	9 0 a,		3 oz.
	•••	•••	* * *1		3 oz.
Sodium benzoate	•••	•••	•••		½ OZ.
Tartaric acid		• • •	•••	• • •	6 oz.

Put the borax, boric acid and benzoate of soda in the milk and heat to the boiling point, then remove from the fire and add the tartaric acid; let it stand 24 hours, then strain and add glycerin 1½ oz. to the residue. Colour and perfume to taste.

		II.		
Cocoa butter	.,	005	•••	32 parts.
Lanolin			•••	 60 parts.
Almond oil	•••		•••	 6 parts.
White wax				 2 parts.

Mix S.A. Perfume suggested: Oil of hyacinth 6 drops, oil of jasmin 4 drams, artificial musk 20 grains, terpinol 2 oz. ("American Druggist.")

Isle of Wight Disease of Bees

J. W. Moir (Scottish Bee-keepers' Association) recommends the use of collosol sulphur as a remedy for the Isle of Wight disease of bees. The dosage is somewhat uncertain, but it is suggested that in districts affected with the disease, but where the mite (Tarsonemus woodi or Acarapis woodi) is still unsuspected the following doses should be tried: (1) 1 oz. of collosol sulphur (1 per cent.) to 4 pints of syrup; (2) 1 oz. of collosol sulphur (5 per cent.) to 20 pints of syrup; (3) \(\frac{1}{10}\) oz. colloidal sulphur (50 per cent.) to 20 pints syrup; (4) 1 gr. precipitated sulphur to each pint of syrup. Where disease is suspected it would be well to experiment with stronger doses, also where the hive is already supplied with stores of honey or syrup for the winter, say: (1) 5 oz. to 4 pints; (2) 1 oz. to 4 pints; (3) \(\frac{1}{3}\) oz. to 4 pints; (4) 25 gr. to 4 pints. For established cases of disease more sulphur should be tried: (1) 10 to 20 oz. for 4 pints; (4) 25 to 4 oz. for 4 pints; (3) \(\frac{1}{3}\) to \(\frac{2}{3}\) oz. for 4 pints; (4) 50 to 100 gr. of precipitated sulphur to 4 pints. The syrup should be thick, 1 lb. 9 oz. per pint.

New Standard Catheter Gauges

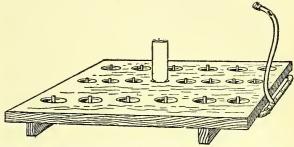
The Surgical Instrument Manufacturers' Association have adopted a standard English catheter gauge with an equal gradation between the sizes and a definite relation to the Weiss gauge and the French gauge. The Association states that the difference between each size is based on sixty-fourths of an inch, but there is a deviation in two or three of the sizes. Dealing with the sizes in common use, No. 1 of the new gauge is equal to 1.5 mm. diameter, each size increasing by .5 mm. to No. 12, which equals 7 mm. diameter. There are two smaller sizes than No. 1—namely, No. 00=0.5 mm. diameter, and No. 0=1 mm. diameter—and with rega d to the larger sizes No. 13=7.5 mm. diameter, each size above this increasing by .5 mm. diameter to No. 30, which equals 16 mm. diameter. The complete range runs from No. 00 to No. 30, with a uniform gradation of 5 mm. between each size, thus covering all the usual sizes for urethral instruments, the larger sizes serving also for cesophageal instruments.

	Table showing Diameters in Millimetres										
No.		mm.		No.		mm.	No.		mm.		
00	=	0.5		10	. =	6	21	=	11.5		
0	_	1	ł	11	= -	6.5	22	=	12		
IL.	=	1.5	1	12	=	7	23	=	12.5		
2	=	2		13	=	7.5	24	=	13		
3	=	2.5	2	14	= .	. 8 -	25	\Rightarrow	13.5		
4	=	3	1	15	=	8.5	26	=	14		
5	=	35		16	=	9	27	=	14.5		
6	=	4		17	= '	9.5	28	=	15		
7	=.	4.5	l	18	=	10	29	=	15.5		
8	=	5	1	19	=	10.5	30	=	16		
9	=	. 5.5	1	20	=	11					

Bottle-Washing Machine

MR. G. Philp, chemist, 24 Guildhall Street, Dunfermline, has sent for our inspection an apparatus for facilitating the washing of bottles, which he thinks will be found of great use in the pharmacy. The invention, which has received provisional protection at the Patent Office, is shown in the accompanying illustration. The

flexible tube, which is fixed on the vater tap, communicates with metal tubes beneath the teak bench. The tubes are supplied with jets arranged at each of the round holes in the board. When the water is turned on



the ordinary pressure of the town supply is sufficient to send strong upward jets of water from each of the perforations. To wash bottles they are arranged mouth downwards over the jets, and effectually rinsed in a few seconds. Mr. Philp informs us that the patent rights are for disposal.

The British Chemical Trade Association

DYESTUFFS

SINCE the issue of their last Bulletin (No. 44), in which details were given of the Board of Trade's reply to the Association's proposals for the participation by merchants in the disposal of Reparation dyes, rumours of various kinds have been in circulation, which are no doubt due to the lack of official news. The Association therefore think it advisable to inform members of the position as it is to-day. Although the information does not come from official sources, the Association have satisfied them-selves that it is correct. The agreement between the Government and the new agents ends on December 31. An extension for a further period has not yet been settled. It is quite possible that after the date mentioned the importation of these dyes will be discontinued. The various interests involved continue to oppose one another, making it apparently impossible for the Government to find a scheme that will please everyone. This, together with the experiment of the C.I.A., seems likely to influence the Government; sufficiently to decide to stop further importations under Reparations. It has not yet been decided to take this course, but it is certainly a possibility. For the time being the proposals submitted by this Association which were adopted by the Board of Trade continue in force. On the outstanding item of "trade discount" it is regretted that the Board of Trade have not yet come to a decision. The Association has arranged with the British Dyestuffs Corporation for them to forward a copy of list of stocks of Reparation dyes direct to members interested in dye-Any member who has not received his copy should communicate with the Association.

GERMANY.

In view of the many complaints being made of unsatisfactory methods of some German exporting houses the Association think it advisable to again warn members that they should take every precaution to protect themselves in this quarter. This refers particularly to the many new and unknown concerns which have sprung up of late in Germany. Late shipment and bad quality material seems the chief complaints. It should be remembered that export licences are granted by the German Government for materials at standardised values, and it may be taken for granted that goods offered below those sterling values are, to say the least, of doubtful quality.

sterling values are, to say the least, of doubtful quality.

In view of the General Election, Mr. Bromfield, secretary of the British Chemical Trade Association, has sent a letter to the Press calling public attention to the Safeguarding of Industries Act, in which he explains in detail how this legislation is affecting commerce from the Asso

ciation's point of view.

Chemical Society

Ar the meeting of the Chemical Society held in Burlington House, London, W., on November 2, Professor J. F. Thorpe, F.R.S., in the chair, nine papers were read. Mr. N. V. Sidgwick (with Mr. W. M. Dash) presented a communication on The Solubility and Volatility of the Nitro-housed debudges, in which he draw attention to the fact the fact. benzaldehydes, in which he drew attention to the fact that in certain groups of ortho, meta and para compounds the boiling points, and also the solubilities, lie close together, and instanced the case of the cresols, where these constants differ only by a few degrees. On the other hand, this does not apply in all cases to the solubilities of two liquids, and he discussed this question at length, dealing the mathetic few points and the control of t with the method of calculating the solubility curve, and the heat of solution, of certain compounds. It was found that while some groups exhibited only a slight difference in solubilities, with others large differences in the boiling points and solubilities existed between the meta, ortho and para groups, the three nitrobenzenes affording a striking instance. He divided these groups into normal bodies and abnormal bodies. The ortho compounds always have a relatively low boiling point as compared to that of the corresponding meta and para compounds; the ortho compounds are also more soluble or miscible with benzene, but less soluble in water, the meta and para compounds exhibiting exactly the opposite behaviour. The normal substances, i.e., those in which the ortho. meta and para compounds show only a slight difference in boiling points and solubilities, are characterised by the presence of the methyl, carboxyl, or methoxy groups, while the abnormal substances are those containing hydroxyl, nitro, chlorine, or aldehyde groups, the greatest differences being found in compounds containing two of these groups. The nitrobenzaldehydes form a most highly abnormal group of substances, and the author expressed the opinion that the two groups in a compound play different functions in the molecule. Dr. R. H. Pickard summarised the contents of molecule. Dr. R. H. Pickard summarised the contents of four papers: Investigations on the Dependence of Rotatory Power on Chemical Constitution. Part XIII. The Spatial Configuration of the Unbranched Aliphatic Chain (with Messrs. J. Kenyon and H. Hunter); The Normal Aliphatic Ethers of d. B. Octanol (with Messrs. J. Kenyon and R. A. McNicol); The Normal Aliphatic Ethers of d. B. Octanol (with Messrs. J. Kenyon and R. A. McNicol); The Normal Aliphatic Ethers of d. Methyl Benzyl arbinol, by Mr. H. Phillips; Part XVI. A New Type of Walden Inversion, by Mr. H. Phillips. These papers embodied a review of the investigations carried out on over 200 optically active compounds. On examining the rotatory power of series of carbinols and ethers of carbinols, it was found that the optical rotation ethers of carbinols, it was found that the optical rotation increases with the molecular weight. While these com-pounds yielded a straight line when plotted from the results obtained from determinations carried out in their sults obtained from determinations carried out in their homogeneous state, a curved line was obtained on examining them in solution. The observation was made that a "bump" occurred regularly in this curve when the growing chain of the compound contained either five or ten atoms of carbon, and in illustration numerous slides of curves of these compounds were shown. A chain of five or ten atoms of carbon exhibits an abnormal rotatory power, and this peculiarity is the cause of the failures to establish regularity in rotatory power. The possibility of spiral formation as the cause of this peculiarity was discussed. Mr. H. Phillips read a paper (by Mr. L. Hall) which was Part XVII, of the Investigation. The Did-Octyl Esters of the Acids of the General Formula (CH₂)n (COOH)₂, in which he dealt with the changes in configuration in this category of compounds, showing how the inversion of dextro- into laevo-rotatory compounds could be effected, and the influence of the position of certain groups in the molecule on optical rotation. Professor F. L. Pyman presented two papers: Orientation of the 1: D4-and 1: 5-Dimethylglyoxalines. Mode of Fission of 5-Aninoglyoxalines, and Bromo-derivatives of 2-methylglyoxaline (with Mr. L. Light), in which he discussed the constitution of the two dimethylglyoxalines, obtained as two oils by the distillation of piloconics, we have a two oils by the distillation of pilocarpine, one having a higher boiling point than the other, from the point of view of orientation of the 1:4 and 1:5 position in the molecule. The nitro group strengthens the methyl group in this class of compound, driving the hydrogen into one position in the molecule, which position, however, has not yet been ascertained.

Festivities

Cardiff Chemists' Whist-drive

THE Cardiff Pharmacists' Association held a whist driv on November 1, when about fifty friends spent an enjo able evening. The President (Mr. A. J. Harris) acted a M.C., and prizes were handed to the successful ladies at gentlemen by Mrs. Harris:—Ladies: (1) Miss Shelton, Mrs. D. Brims. Gentlemen: (1) Mr. D. Thomas, (2) M A. Hagon. A special prize was presented to Mrs. J. L. Jones, who played as a gentleman.

Portsmouth Ladies' Social

The Ladies' Committee of the Portsmouth Pharmacist Association were "at home" on November 1, when most successful evening was spent. The guests of tl sterner sex were received by Mrs. A. T. W. Jeans, Pr sident, and were encouraged to banish dull care by programme of music, whist and dancing. After a interval for refreshments, Mr. A. B. Sparrow voiced tl thanks of the gentlemen who had been so well entertained and congratulated the Ladies' Committee on their organistion and hospitality. Whist prizes were gained by Ladies: Mmes. Byerley, Padfield, Peet, Hutton, Jean and Roberts; and Gentlemen: Messrs. Darling, Peet an Francis. The services of Mr. W. R. Atterbury as M. (were much in evidence.

The Chemical Foundation

By "The Man from London"

A THIRTY-DAY extension has been granted the Chemica Foundation of America by the Department of Justice i which to file its answer to the bill in equity demanding the return of the 4,700 former German patents (C. & D. October 28, p. 611). An endeavour is to be made the reach a speedy settlement of the controversy, which assuming serious proportions, due to the trade-mark clausing the new Tariff Act. The attorneys for the Chemical Control of the Chemical Chemi in the new Tariff Act. The attorneys for the Chemic Foundation had to file their answer on October 27, as th Government was anxious to settle the question of title t patents. The trade clause referred to is Section 526 (a) That it shall be unlawful to import into the Unite States any merchandise of foreign manufacture if suc merchandise, or label, sign, print, package, wrapper, or receptacle, bears a trade-mark owned by a citizen of, by a corporation or association created or organised withi the United States, and registered in the Patent Office be a person domiciled in the United States, under the previsions of the Act entitled "An Act to authorise the registration of trade-marks used in commerce with foreign nations or among the several States or with Indian tribe and to protect the same; approved February 20, 190 and to protect the same; approved February 20, 1902 as amended, if a copy of the certificate of registration of such trade-mark is filed with the Secretary of the Treasury, in the manner provided in Section 27 of such Act, and unless written consent of the owner of suctrade-mark is produced at the time of making entry. These pre-war German patents, which are causing so muc trouble to the Chemical Foundation, before the war brok out formed a colossal obstacle to the development of th American dyestuff industry, and incidentally they wer sufficient to stop importation of competing Swiss, Frenc and English dyes. So the idea was conceived that i these German patents were taken over by an America institution a real obstacle might be imposed to Germa importation after the war and American chemical industr be freed from the prohibition enforced by the patent against the manufacture of the most valuable dyestuffs So the Chemical Foundation was formed, which bough through executive order 4,500 of these patents fo \$250,000. It is submitted by the Chemical Foundatio that this important step was taken for the protectio of the new industry, and that \$450,000,000 is invested in the chemical business which many independence. of the new industry, and that \$450,000,000 is invested if the chemical business, which means independence and freedom of the textile, leather, paper, paint and varnish pharmaceutical three-billion dollar essential America business; also the advancement of pure science and research and medical science in the United States.

Trade Report

ices given in this section are those obtained by importers or nufacturers for bulk quantities or original packages. To these ces various charges have to be added, wherehy values are in many tances greatly augmented before wholesale dealers receive the ids into stock, after which much expense may be incurred in bling and the like. Qualities of chemicals, drugs, oils, and many er commodities vary greatly, and higher prices than those here oted are charged for selected qualities of natural products even in k quantities.

42 Cannon Street, E.C.4, November 9

veek under review, so far as Mincing Lane produce cerned, compares unfavourably with its predecessor, ng from the opinions expressed by merchants and rs. A disquieting feature in the foreign exchanges e alarming depreciation in French francs, the rate cing 72.50 to the pound sterling, while German s at 40,500 to 41,000 on Wednesday seem to show here is no limit to the depreciation. The few bright in the markets include a good Continental export nd for Japanese slab camphor, prices of which have ceed by 2d. per lb. Menthol is firm but quiet: the I announced this week is mostly for delivery to mers. Jalap is scarce and dearer on the spot. The single state of the spot is steady, with a small seasonal demand. Elemi cen sold at lower prices and guaiacum has changed more freely. Ipecacuanha is steady. Canary and eeds are slightly easier. Opium continues unsettled ew of the Near East menace. Mercury has sagged by. Linseed oil and turpentine are lower. A fair y of vanilla at auction sold at firm prices to a slight oc. Honey has been in fair demand and has appred in value.

Higher	Firmer	Easier	Lower
nilide ic m peru (U.S. m tolu S. oic acid olor ref., slabs a oil aldehyde y oil oilh- thaleir im benzoa	Formaldehyde Lemon oil Linseed (Morccco) Potash caustic Pyridine Soya-bean oil Tannic acid Terpineol	Ammon. muriate Atropine Bergamot oil Canary seed Cantharidin Chloral hydrate Citric acid Citronella oil Cottonseed oil (deod.) Dill seed Farina (Jp.) Geranium oil (Bourb on) Lemongrass oil Mercury Prlm kernel oil Pilocarpine Potash bichrom. Potash chlorate Sal ammoniac (dealers) Sodium bichromate Sodium bichromate Sodium Sodium nitrite Tartaric acid	Benzol Caffeine and Salts Elemi Linseed oil Mace (W.I.) Potash carbonate Resorcin Salicin Sodium Sulphide Strychnine and Salts Tcrpin hydrate Turpentine

Cablegram

IEW YORK, November 9.—Business is quiet. Acetanihas advanced to 38c. per lb., and formaldehyde is rer at 13½c. Jalap is also higher at 25c., and sertary root has advanced to 85c. Balsam tolu is dearer 72c., likewise balsam peru at \$1.75. Wintergreen oil declined to \$4.00, and sweet oil of birch to \$2.00. permint oil is 5c. lower at \$2.65, and senega is aper at 77c. per lb.

Crude Drugs, etc.

GAR-AGAR remains firm at 5s. 9d. per lb. for Japanese 1 on the spot, and at 4s. 4d. c.i.f. to arrive. No. 2 is. 6d. spot and 4s. 3d. c.i.f. to arrive.

NTIMONY is firm, supplies all round being light. There as to be a fair demand for crude, in which business been reported up to about £18 per ton c.i.f. to ive. Cable advices from China state that sellers are a sking even considerably above that figure. A little thus has lately come in from the Far East, and the

price wanted c.i.f. to arrive is about £25. There has been no alteration in English regulus, only small lots being handled.

Cadmium.—There is not much doing, but the tone is steady, prices being about 5s. 6d. to 5s. 9d. per lb. The fact deserves notice that a few parcels have arrived from Tasmania, and this supply should become fairly regular in view of the steady progress being made there with zinc smelting.

CALUMBA.—The deliveries from the London drug warehouse during October amounted to 286 bags; there were imports of 100 bags. The stock on October 31 was 15,808, against 19,687 on October 31, 1921.

CAMPHOR (CRUDE).—Chinese is unaltered at 3s. 4d. per lb. on the spot and at 3s. 2d. c.i.f. for November-December shipment.

CAMPHOR (REFINED).—Quite a large business has been done on the spot in Japanese 2½-lb. slabs on mostly Continental account, with up to 3s. 9d. per lb. having been paid; afloat has been sold at 3s. 7½d. c.i.f. and November-December shipment at 3s. 5½d. c.i.f.

CASCARA SAGRADA.—The London stock at the end of October stood at 57 tons, against 43 tons in 1921. The landings during October were nil, and the deliveries ten tons.

CASSIA FISTULA.—Fair West Indian pod is steady at about 50s. per cwt.

Cod liver oil.—Agents' quotations in London vary from 90s. to 93s. per barrel, c.i.f. London.

Dragon's blood.—The landings in London during October amounted to 19 cases and the deliveries to 25, leaving a stock of 106 cases, against 201 cases in 1921.

ELEMI has been selling at lower prices, fair pale realising 60s. per cwt.

ERGOT is unaltered, spot holders asking up to 2s. 3d. per lb. for clean, sound Spanish, and other qualities vary from 2s. to 2s. 1½d. for slightly wormy to fairly good.

from 2s. to 2s. 1½d. for slightly wormy to fairly good.

GUAIACUM.—A fair business has been done recently.

Good glassy is now scarce on the spot, with 2s. 6d. to
2s. 9d. per lb. asked. Dull drossy, which is plentiful,
has been sold down to 9d. per lb.

HEN YOLK remains firm, prime quality Chinese selling at 107s. 6d. per cwt. on the spot. To arrive, December-January shipment has been sold at 105s. c.i.f. For dried yolk 9½d. is quoted, sprayed whole egg is 9d., sprayed yolk 10d. to 10½d., and native dried whole is 8½d. per lb. Prime Chinese hen albumen is 3s. spot, and November-December shipment is 2s. 11½d. per lb. c.i.f.

HONEY.—A fairly good business has been done at full rates. There is practically no Jamaican, Haytian or San Domingo available, and none of any variety below 37s. 6d. per cwt., which is 7s. 6d. above the rates paid at auction three weeks ago. New Zealand is selling at 65s. to 80s. per cwt.

IPECACUANHA is steady at 7s. per lb. on the spot for Matto Grosso. During October the imports into London were 16 packages Matto Grosso and five East Indian, while the deliveries were 42 Matto Grosso, three Minas, and two East Indian, leaving a stock of 157 Matto Grosso, 43 Minas, 17 Cartagena, and 27 East Indian.

JALAP has been advancing at the source for some time past, and good testing root (18 per cent.) is now scarce on spot, one holder asking about 2s. 6d. During October there were no landings, the deliveries being 10 bags, leaving a stock of 13 bags.

MENTHOL.—The "Teiresias," from Kobe, brought 45 cases of menthol and 100 cases of mint oil to London on November 1. The menthol is practically all sold to arrive, so that market prices are not affected. Kobayashi-Suzuki is still 32s. to 32s. 6d. per lb. as to quantity, and for delivery at the end of November 30s. c.i.f. is quoted.

MERCURY has shown a tendency towards further sagging, business having been reported at between about £12 5s. and £12 per bottle, both for Italian and Spanish. The home demand continues very light, and there is only a small inquiry for export. Germany bought a fair quantity from this side, and also from Spain direct. American advices state that the demand has broadened somewhat

and the available supplies appear to be well held, while there is as yet no immediate prospect of the idle mines being restarted.

Nux vomica.—Cochin is quoted on the spot at from 30s. to 32s. 6d. per cwt. and Calcutta at 28s.

OPIUM.—In view of the uncertainty of obtaining shipment from Constantinople, as a result of the political situation, opium merchants are declining to enter into fresh engagements, and business at that port is at a standstill. The London spot price of good Turkey druggists' quality is about 15s. to 15s. 6d. per lb., and Persian opium is about 30s. per lb.

Constantinople, October 31.—From October 17 to date the arrivals and stock were respectively as follows:—Druggists', 483 cases and 70 cases; "Softs," 24 cases and 83 cases; Malatia, 20 cases and 16 cases. Sales on our market amounted to 111 cases, 83 druggists' at 1,300 to 1,400 piastres per oke, and 23 "softs" at 1,430 to 1,450 piastres. Of these, 45 cases were for Japan, and the rest for Europe. From a reliable source we learned that two boats at Adalia took on about 100 cases. One of these steamers arrived to-day with 35 to 40 cases, and the second is expected during the course of the week. The Japanese buyer has done everything possible to purchase with care, and he has been able to operate without having the prices advanced very much. But we believe that, while the arrivals continue to be irregular, the market will remain firm owing to the large exportation and the reduced stock.

arrivals continue to be irregular, the market will remain firm owing to the large exportation and the reduced stock. In the October issue of the journal of the British Chamber of Commerce of Turkey and the Balkan States it is intimated that "the destruction of many towns and villages by the Greeks in their retreat from Anatolia and the burning of Smyrna have naturally had a marked effect on the Constantinople market. Arrivals have been the same, but there has been a great increase in the demand, so that prices during the last fortnight have risen steadily. Good quality old crop druggists', which was sold at 1,100 piastres early in the month, could not be had for 1,250 piastres during the last week. Stocks, in consequence, are very low again, and hardly amount to 275 cases all told. It is impossible to tell how much opium was destroyed in Smyrna will be in the market for some time to come, so that consuming centres will have to buy from Constantinople. Arrivals may possibly be on a large scale, but we think the present high level of prices will be maintained."

PLATINUM.—The market has remained rather unsettled, demand being very patchy and hesitating. The price of refined is called fully £21, while raw metal ranges rather upward of £19 per oz. Palladium commands about £14 per oz.

RHUBARB.—During October the deliveries from the London drug warehouse amounted to 53 chests, and the landings to 237. The stock at the end of October was 942 chests, against 937 on October 31, 1921.

Rubber.—Again steady after showing signs of weakness. The market on Tuesday touched 11\(^3\)d. with buyers at 11\(^3\)d. only, but the position has since considerably strengthened on account of the firmness in the East and America. Last week's deliveries were again satisfactory, amounting to 1,293 tons, and stocks have been reduced by nearly 400 tons. Good shipments continue to be made to Russia, and about 2,000 tons have been shipped there during the past two months. Quotations (Wednesday, 5 p.m.) Standard No. 1 crepe and ribbed smoked sheet, spot 11\(^3\)d., December 1s. to 1s. 0\(^3\)d., January-March 1s. 0\(^3\)d., April-June 1s. 0\(^7\)d., July-September 1s. 1\(^1\)d. Hard fine Para remains firm at 1s. 1\(^1\)d. spot.

Our attention has been drawn to a slight error which occurred in our article on the rubber position (October 28, p. 602). It is incorrect to say that under the restriction scheme an export duty of 1d. to 4d. per lb. will be leviable or all rubber exported up to 65 per cent. of the standard production, etc. The maximum export duty leviable on 60 per cent of the standard production is 1d. per lb.

Sarsaparilla.—A lot of 21 bales native Jamaica has arrived in London, on an almost bare market. Lima-Jamaica is scarce and dear at from about 2s. 9d. to 2s. 10d. Guatemalan can be had at about 1s. 10d. to 2s. per lb. The landings of all kinds of sarsaparilla in London during October amounted to 14 bales and the deliveries to 18, leaving a stock of 89 bales, against 572 bales in October, 1921.

SENEGA meets with a fair seasonable demand, and sp prices are steady at from 3s. 7d. to 3s. 9d. per lb.

SHELLAC.—The position is exceedingly firm, and trecent big advance has been well maintained, sellers beigenerally chary, due to indications of growing scarci and the drain on the stock. The spot value of usus standard TN orange quality closes at 350s. per cwt superfine is 500s., RLI 390s., AC cakey 325s., and GA 300s. Sales for delivery include December at fro 327s. 6d. to 330s. to 315s., and March at 305s. to 285s.

STARCH PRODUCTS.—Japanese farina is dull and easi on spot at 16s. per cwt. Dutch is also easier for spot 16s., and for December shipment at 13s. 6d. c.i.f. quoted. English rice starch crystals is steady at 40 and Continental is dearer at 34s. Maize starch powd is 14s. 1½d. on spot. Dutch dextrin on the spot is 26s. 9 for superior and 23s. for No. 2. American maize 17s. 6d.

TAMARINDS.—West Indian are getting scarce at 30 per cwt. in bond, and further supplies are not expect before April. Antiguas in first hands are not available and of East Indian only out of condition parcels a offered.

TONKA BEANS.—There is said to be only one case Angosturas in first hands in London, for which 8s. 6 is asked.—

Vanilla.—At auction on November 3, a fair support good quality offered and practically all sold at fit prices to 1s. per lb. advance: 51 tins Seychelles sold 11s. to 11s. 6d. for leanish firsts 6 to 8 in.; 9s. 3d. 10s. 6d. for 3½ to 6½ in.; splits, 9s. to 10s.; 203 ti Madagascar mostly sold, comprising good firsts 6 to 7½ in 11s. 6d. to 12s.; 4 to 6 in., 11s.; good seconds, 4½ to 6 in 9s. 6d. to 10s.; splits, 9s. to 10s. 6d.; mouldy, 4s. 6d. 5s. 9d. 120 tins Bourbon sold, including fine firsts 6 7 in., 11s. to 11s. 6d.; 3½ to 5½ in., 10s. to 10s. 6d split firsts, 11s.; mouldy, 5s. 6d. Six cases foxy d Ceylon sold at 8s. 3d. and five tins dry Tahiti 4s. 9d. per lb.

Seeds, Spices, etc.

CLOVES are easier, the spot value of fair Zanzibar beinominal at 1s. 4½d, per lb. The sales to arrive inclusion November-January shipment at 6d. per lb. c.i.f., at scilers of January-March at 6d. c.i.f.

COCONUT (DESICCATED) is steady at 36s. 6d. per cwt. for fine and medium on spot. To arrive, November-Decemb shipment and December-January is quoted at 35s. 6d.

Mace.—At auction, prices were 2d. per lb. cheape 208 packages West Indian being disposed of, including good to fine palish 1s. 6d. to 1s. 10d., fair to good redding 3d. to 1s. 6d., ordinary 1s. to 1s. 2d., and picking 6d. to 8d.

NUTMEGS.—At auction, 239 packages West Indian we mostly sold at steady rates.

Pepper is quiet. Fair black Singapore on the spot steady at 3\(^2_6\)d. per lb., and for November-January at December-February shipment 3\(^3_4\)d. per lb. c.i.f. is quote Fair Tellicherry is 4\(^4_4\)d. on the spot, Aleppy 4d., and Lappong 4\(^4_3\)d. on the spot. Tellicherry to arrive is 38s. c.i.f and Aleppy 37s. c.i.f. White Muntok is unchanged, wit sellers at 6d. per lb. on the spot. Afloat has been sold 5\(^5_8\)d. November-January and December-February habeen sold at 5\(^7_8\), per lb. c.i.f. d.w., and January-March 6d. White Singapore is 5\(^1_2\)d. on the spot, and 5\(^1_3\)d. c.i.f. d.w., for November-January shipment.

PIMENTO is steady at $2\frac{1}{6}d$. per lb. on the spot. TI week's deliveries were 361 bags, and the landings 108 bag leaving a stock of 8,396 bags, against 25,413 bags in 192 and 39,986 bags in 1920.

SEEDS.—The following are current spot quotation except where otherwise indicated:—Spanish anise unaltered at 75s. to 80s. per cwt., and Russian at 71 Canary seed is quiet and easier at 85s. per quarter for Mazagan on the spot, and 81s. c.i.f. afloat. Larache is 75 c.i.f. Dutch caraway seed is unchanged at 97s. 6d., and Morocco is 80s. No sound Coriander seed is available and wormy is from 28s. to 42s. 6d. per cwt. Malter Cumin seed is 130s. per cwt. Dill seed is easier at 22s

FENNEL SEED is 57s. Sound FENUGREEK SEED is still per cwt. Manchurian HEMP SEED is unchanged at Morocco Linseed is firmer at 23s. per cwt., and ish Mustard seed is unaltered at from 30s. to 35s.

Essential Oils

e demand for oils, with the probable exception of yptus, which has been selling fairly well, is quiet. n is dearer. Bergamot is slightly easier. Ceylon nella and lemongrass are quieter and cheaper.

TISE (STAR).—"Red Ship" on the spot is quiet and anged at 2s. 3d. per lb. The price quoted to come ard varies from 2s. $0\frac{1}{2}$ d. to 2s. 1d. c.i.f.

RCAMOT is easier in some quarters from last week at 13s. 10d. to 14s. 3d. c.i.f. For January-March shipt 13s. 2d. c.i.f. is quoted. On the spot holders ask 14s. 3d. to 14s. 6d. for 37 to 39 l.a.

AUPUT.—An arrival of 50 cases from Java to London otified. On the spot, holders are asking 4s. 1d. per

p

мрнов.—Sales of white essential on the spot have made at 85s. in cases. For drums 92s. 6d. is asked ome quarters. Brown is quoted at 85s.

ASSIA.—Only a few cases are offering at from 6s. 42d. s. 6d. per lb., for 80 to 85 c.a. From 5s. 9d. to 6s. . is asked to arrive.

INNAMON.—Ceylon leaf is quiet and unchanged at 4d. oz. on the spot, and $3\frac{3}{8}$ d. c.i.f. to arrive.

irronella.—Ceylon is easier on the spot at from 2d. to 2s. 3d. per lb., and for shipment 2s. to 2s. 1d. is about the nominal value. Java continues in fair and, and 3s. is wanted on the spot for high-percenoil, and 2s. 11d. to 2s. 11½d. for other qualities.

LOVE.—English distilled is 10s. to 10s. 6d. per lb. on spot, but there is not much being produced at present. sore is offered for immediate delivery at 9s. 6d.

UBEB.—On the spot from 28s, to 34s, per lb, is quoted ording to seller and quantity.

CCALYPTUS has been in good demand, and is firm at 6d. to 1s. 7d. per lb., for 70-75 cineol. For 75-80, 8d. is wanted.

ENNEL .- Spanish sweet is offered on the spot at per lb.

FERANIUM.—Bourbon on the spot is offered at 25s. 6d. lb. The depreciation in the value of the franc enables orters to quote less cx Marseilles for third crop oil w arriving, the price for which is 22s. to 22s. 6d. c.i.f. SINGERGRASS is offered on the spot at from 7s. 6d. to 3d. per lb. for so-called insoluble.

LEMON .- Offers for shipment have been made down to 3d. c.i.f., but orders sent at this figure have been urned with 2s. 5d. now lowest. For some brands 6d. c.i.f. prompt shipment is quoted. On the spot 6d. to 2s. 8d. per lb. is asked, according to brand.

LEMONGRASS.—Cochin is quiet and easier on the spot 2½d. per oz. and 2¼d. e.i.f. for shipment.

LIME.—Distilled on the spot is obtainable at from 2s. 2s. 2d. per lb. Hand-pressed is 9s.

MINT.—Japanese dementholised Kobayashi-Suzuki is ady at 7s. 9d. per lb. on the spot. Shipments near at nd are quoted 7s. 4½d. c.i.f. to arrive. Distant at 9d. c.i.f.

Orange.—Sicilian sweet is offered to arrive at 8s. 2d. .f., and bitter at 8s. 7d. c.i.f. On the spot about 9s. given as the value for sweet.

PALMAROSA.—The c.i.f. quotation to arrive is round out 15s.

PEPPERMINT.—American natural tin oil is unchanged 13s. per lb. on the spot. A lot of 4 to 5 cases is rered on the spot at 12s. 6d. H. G. H. is quoted at

Petitgrain.-Paraguayan on the spot is unchanged at . 6d. to 7s. 9d. per lb.

ROSEMARY.—Spanish to arrive is quoted at 1s. 8d. per . c.i.f.

SANDALWOOD.—There are sellers on the spot of B.P. East Indian at from 25s. to 27s. 6d. per lb. in quantity. West Indian (ol. amyris) is unchanged at 16s. 6d. West Australian is offered at from 14s. to 17s. 6d.

SPIKE.—Spot quotations for Spanish range from 3s. 1d. per lb. for drums to 3s. 6d. for smaller lots. The price to come forward is 3s. c.i.f.

YLANG-YLANG.—For fine quality Manila 6s. per oz. is reported paid.

Pharmaceutical Chemicals, etc.

Our forecast of a few weeks ago that before very long this market would take on a general advance in prices has already been well justified. The spot market is, in most directions, considerably firmer to-day than a month This is due to two main factors, the first being the much dearer quotations coming to hand from Germany, making it impossible to replenish stocks at the present spot prices. Secondly, after a very long period of over-stocked markets, supplies are gradually becoming exhausted. There are also unmistakable signs that business is improving with even the export market taking an interest in things. Reports from all quarters indicate that it is difficult to get offers from Germany. It seems that German makers expect their prices to advance owing to higher costs of production, and the shortage of raw materials is having the effect of making them afraid to quote firm. Benzoates continue to harden on spot, as the result of the prices fixed by the German Convention. Bromides are still weak on spot. Acetanilide is dearer. Phenolphthalein and terpineol are also higher. Caffeine and salts, strychnine and salts, salicin, citric acid, tartaric acid and resorcin are cheaper.

ACETANILIDE firmed up very considerably, and most spot holders are now asking as high as 1s. 5½d. to 1s. 6d. per lb., and slightly less for cwt. lots.

AMIDOPYRIN stands steady at about 16s., although there is little doing.

Ammonium benzoate is declared at about 5s. 3d. and upwards on the spot, but it is doubtful whether that figure is being obtained.

Aspirin stands firm at the old price of 2s. 10d. to 3s. per lb., as to sellers, with business good.

BARBITONE is neglected, with the price almost nominal at 10s. and upwards per lb.

Benzaldehyde (.03) is quoted on spot unaltered at 3s. per lb. in carboys.

BENZOIC ACID has gone to much higher prices, and stands firm, with indications of further advances to come, at 2s. to 2s. 3d. per lb.

Benzonaphthol remains dull at 5s. per lb.

Bromides.—There is very little to add to the comments made in our recent reports. It is obvious that there is far too much material about, with the market consequently weak. The demand is still poor. At the same time, offers from the Continent, which are firmer, are likely to affect the market in time. Ammonium is 83d. to 9d. per lb; potassium, crystals and granular, 72d. to 8d. per lb.; sodium, crystals and granular, about 8d. to $8\frac{1}{2}$ d. per lb.

Caffeine. - Makers of caffeine and salts have reduced their prices, quoting the pure crystals at 14s. per lb., tne following being the prices of salts. B.P. citrate 9s. 6d., benzoate 14s., hydrobromide 19s., hydrochloride 18s., sa'i cylate 15s., soda benzoate 14s., soda salicylate 13s., silphate 15s., and valerianate 28s. per lb. Importers qrote the pure cryst. at 12s. 6d. to 12s. 9d., and citrate at 9s. 6d.

CALCIUM LACTATE stands firm at 2s. 1d. to 2s. 3d. per lb., with the demand slightly improved.

CHLORAL HYDRATE is one of the few markets to decline. The price on spot for duty-paid material is at about 3s. 9d. per lb. in cwt. lots. At this figure the market is by no means firm.

CITRIC ACID.—The spot market is being weakened by some very cheap offers for forward delivery; B.P. crystals on spot are easy at 1s. 9d. per lb.

CODEINE is firm, makers quoting the pure crystals at 14s., phosphate at 10s. 6d., hydrochloride and sulphate at 11s. 9d. per oz. net.

CREOSOTE.—B.P. is dearer this week, with nothing now offered very much below about 2s. 9d. to 3s. per lb.

CREOSOTE CARBONATE remains steady, but not at all active; spot price remains at about 9s. 6d. to 10s. per lb.

GUAIACOL CARBONATE shows no change on the week, and has been slack; 7s. 9d. to 8s. per 1b. are the declared values.

HEXAMINE seems to be hardening with other German lines, and no offers on spot are below 2s. 9d. to 3s. per lb., and slightly less for quantity.

Hydroquinone does not seem to be wanted now the season has finished—spot about 3s. 6d. to 3s. 9d. per lb.

METHYL SALICYLATE is well maintained at 2s. 2d. per lb., with occasional business passing.

METHYL SULPHONAL is a little steadier at about 14s. to 14s. 6d., but very small business has been done.

MORPHINE.—Makers' prices are unchanged, the basis price of hydrochloride powders being 8s. 6d. per oz., and 8s. 9d. for crystals.

PARAFORMALDEHYDE in some quarters is offered down to about 2s. 8d.; other holders persist in asking 2s. 9d. to 3s. per lb.

PARALDEHYDE holds firm in some quarters at last week's improved price of 1s. 6d. per lb., with one offer of 1s. 3½d. in case lots.

PHENACETIN is firm with the price asked on spot in the region of 5s. per lb.

PHENAZONE seems to be hardening somewhat, with the general quotation round about 7s. to 7s. 3d. per lb.

PHENOLPHTHALEIN is considered to be fully worth 4s. 9d. to 5s. in some quarters, and it is said supplies are difficult to obtain for forward positions.

Potassium permanganate keeps in good demand, with B.P. selling well at $7\frac{3}{4}d$. to 8d. per lb., according to quantity.

RESORCIN is easier, importers offering at 5s. 9d. per lb. Salicin.—Makers have reduced the price by 1s. per lb. to 15s. in 28-lb. lots, the list quotation being 16s.

SALICYLIC ACID is a shade firmer, with 1s. 3½d. to 1s. 4d., the general prices asked for B.P.

SALOL holds at last week's better price of 2s. to 2s. 2d. per lb.

SODIUM BENZOATE is firm at the further advanced rate of 2s. 3d. per lb.

SODIUM SALICYLATE is now steady, with powder at 1s. 10d. and crystals at about 1s. 11d. per lb.

SULPHONAL remains neglected, with values weak in the region of 14s. to 14s. 6d. per lb.

STRYCHNINE AND SALTS.—Makers have reduced their prices by 3d. per oz., and now quote as follows:—Alkaloid cryst. 5s., precip. 4s. 11d., arseniate 4s. 4d., bisulphate 3s. 10d., hydrochloride 4s. 3d., hypophosphite 6s. 3d., nitrate 4s. 3d., phosphate 4s. 9d., and sulphate 4s. per oz.

TANNIC ACID.—The spot market for leviss B.P. has hardened to as high as 3s. 4d. to 3s. 6d. per lb. in some quarters.

TARTARIC ACID.—The spot position for holders is far from good. The demand is still small, and sellers of forward positions are cutting the market somewhat. On spot B.P., crystals at about 1s. 2d. per lb. for good quantities.

TERPIN HYDRATE is easier at from 1s. 9d. to 2s. per lb. THEOBROMINE.—The pure aikaloid is quoted at from 1ss. 6d. to 1ss. 9d. per lb., and the sodium salicylate at 8s. 6d.

THYMOL is nominal at from 18s. 6d. per lb. Sales are below the declared values quoted.

YOHIMBINE.—Hydrochloride is quoted in several directions at 5s. per gram.

Industrial Chemicals, etc.

The continued activity of the few products recorde during the past few weeks is the main feature of th market. Acetone continues firm; acetic acid is hardering owing to conditions in the American market. Caust potash is also likely to harden on spot. Sal ammonic of all grades is cheaper. The demand for sodium products is still light so far as spot business is concerned As regards current prices, there is very little change to record.

ACETIC ACID is now very firm on spot, with every ind cation of an advance before long. The American marks is cabled as firmer; 30 per cent. technical, £40; 80 per cent. pure, £43; 98 per cent. glacial, £65 per ton, it casks and demijohns, ex wharf, London.

ACETONE.—The position is very much as detailed larweek. Sales in the region of £130 to £140 have bee effected this week, and at these rates the market is considered very firm. The position of supplies is so far neasier.

ALUM.—Lump, in bags, is offered on spot at £11 t £11 10s. per ton, but little buying has taken place.

Ammonia (anhydrous),—99.95 per cent. is freely offere and no doubt the declared value of 1s. 7d. per lb. coul be easily discounted.

ARSENIC.—There has been a somewhat more active demand, and the continued scarcity of supplies has resulted in a further considerable advance lately for white Cornish powder, which is held for about £52 to £53 per ton delivered London. The market has been cleared of foreign parcels for shipment to the United States recently, where the tone is very firm with the price a fully 10½c. per lb. The output in the U.K. for the past year was lately officially returned as 1,032 tons which is but little more than had been generally expected

BARIUM CHLORIDE (98 to 100 per cent.) in some fer small lots is offered on spot at about £20 per ton...

COPPER SULPHATE.—The export demand has not shown much sign of a revival, but the tone is steady, and in fact the turn harder this week, makers being up agains a rising market in bar copper. Makers' terms rang upward of £26 10s. per ton, less 5 per cent. f.o.b Liverpool for casks.

CREAM OF TARTAR.—B.P., 99 to 100 per cent. on th spot is at about 104s. per cwt., less 2½ per cent., with forward offers at about 98s. c.i.f., in ton lots.

Ersom salts are offering on spot in the North at abou £6 5s. per ton for commercial quality in bags, but ther is no great demand.

FORMALDEHYDE.—American news continues to harde this market on spot, and the present rates, which are ver firm, are at about £77 10s. to £80 per ton for 40 per cent volume, ex wharf, London.

LEAD PRODUCTS.—British makers' prices are said to b slightly dearer. Dealers in imported are quoting the prices as reported last week.

LITHARGE.—Pure flake British is steady at £35 per ton Continental is offered c.i.f. London at £32 per ton, witl little doing.

LITHOPONE.—Continental red seal, 30 per cent., is un changed on a quiet market at £22 per ton c.i.f. London

Oxalic acid.—The spot price is maintained at 7d. pe lb. On Saturday next the Referee is hearing an appea against the inclusion of this product in the list of products liable to the import duty of 33½ per cent.

POTASH CAUSTIC (88 to 92 per cent.) is a shade firmer and nothing much is offered on the spot from the Continent under about £30 per ton.

Potassium bichromate seems a little cheaper at abou $6\frac{1}{4}$ d. per lb., with the demand still poor.

POTASSIUM CARBONATE.—Dealers are now offering 96 to 98 per cent. on the spot at about 30s. to 31s. per cwt. and are finding business better.

POTASSIUM CHLORATE remains dull and values are weakening owing to very cheap offers for forward positions, which are said to be as low as 23d. f.o.b. Hamburg. The spot price is about 4d. to 44d. per lb.

OTASSIUM PRUSSIATE.—Yellow prussiate is firm on the t at 1s. 6d. per lb., and there is quite a fair demand. AL AMMONIAC.—Dealers have once more lowered their ces on spot, but business is still slow; dog-tooth stals, 50s. 6d.; medium-sized crystals, 45s.; fine white stals, 30s. per cwt.

ALTCAKE.—Nothing on the market and makers sold up to the end of the year. Price is nominal at

5s. to £4 10s. per ton f.o.b.

SODA ASH (58 per cent, light alkali).—Business in adon on spot is still dead. In the North they are king £9 per ton on spot; London, £8. Makers are oting to domestic consumers on contract at about 17s. 6d. per ton, and their export prices vary as to

stination in the region of £7 10s. per ton.

FODA (CAUSTIC).—Dealers still find business exceedingly or. Their prices are unchanged at 70 to 72 per cent., 9 10s.; 76 to 77 per cent., £21 10s. per ton, ex wharf, pping port. British makers' prices to domestic conmers on contract are at 70 to 72 per cent., £20 5s.; to 77 per cent., £22 10s. per ton. American 76 per t. continues to be offered c.i.f. chief Continental ports about £19 per ton.

SODIUM ACETATE is maintained on a slow market at about

23 per ton.

SODIUM BICARBONATE from British makers for home ade only is steady at £10 10s. per fon, in bags, devered. Spot is at about the same price.

SODIUM CHLORATE seems to be almost unwanted and is

ailable at about 3d. per lb.

Sodium hyposulphite.—Pea crystals have not been quite active, but the price for good quality, packed in 1 cwt. gs, is well maintained at and over £17 per ton.

SODIUM NITRATE (96 per cent.) is £13 per ton, f.o.r.

verpool, with business slow and market rather unsteady. SODIUM NITRITE (100 per cent.) is about £27 to £27 10s. r ton. A further slight fall in prices is again corded.

Sodium Prussiate is a shade easier at 11d. per lb.,

ith sales fairly satisfactory.

Sodium sulphide.—Dealers' prices are at much cheaper tes; 60 to 62 per cent. solid is now offered at £17 and oken at £18 per ton, in drums. British 60 to 65 per ent concentrated is quoted at £18 per ton, in casks.

COAL-TAR PRODUCTS, ETC.—ANILINE OIL remains idle at per lb., drums free. Aniline salt, 1s. per lb., casks ee; nominal—no business reported. Ветапарнтног, bout 1s. 4d. to 1s. $4\frac{1}{2}$ d. per 1b.; business remains very arce. Benzol, 1s. 8d. per gallon, f.o.r. makers' works, thereof, is, od. per gallon, i.o.t. makers works, in buyers' packages; a considerable further drop in price recorded this week. Toluol, 2s. per gallon, f.o.r. takers' works, in buyers' packages; at this rate the tarket remains steady, but is not at all active. Xylol, ure, 3s.; commercial, 2s. 2d. per gallon, drums extra; he market is unchanged. Naphtha is about 1s. 9d. per gallon, there is unchanged. allon; there is no further fall after last week's slight eduction; the demand is small. Solvent naphthas, 90 o 160, 1s. 9d. per gallon, drums extra; declared values tand unaltered with the market slack. Heavy solvent he position is as last reported, with business scarce. periodic is as last reported, with business scaler, special oil, for Diesels and motors, 10d. per gallon, barrels free. Burning oil, crude, No. 3, 8½d.; No. 2, bd. per gallon, barrels free; the market stands steady, but is rather inactive. Carbolic acid, crystals, is about 7d. per lb.; the market has firmed up during the week o this better price. CRESYLIC ACID is 2s. 3d. per gallon; he market is unchanged. NAPHTHALENE, £17 per ton; orices are at the same level, with not much inquiry at the moment. Crude, £4 to £7; crystals, £15; powder, £16; balls, £24; candles, £34; tablets, £34 per ton; packages free. Disinfectants, 5s. 9d. per gallon, barrels free. Prypring 5s. 9d. per gallon, barrels free. Pyridine, 5s. 9d. per gallon; the market is much firmer this week. HEXAMETHYLENE is 2s. 10d. per gallon, and holds steady at this unchanged price. PURE METHYL ALCOHOL is about £85 per ton, ex wharf, London; market stands very firm, and a slight advance is not unlikely. Pirce is 122s. 6d. per ton, and a further considerable advance in price has taken place, with the market standing years form. standing very firm.

Fixed Oils, etc.

THE demand for raw linseed oil has been poor, and the market is easier. Turpentine has been dull, and is now cheapening. Acid oils are very firm and active. Palm oils have considerably advanced for all grades. Soya bean oil has improved on spot. Other products are about the same, with business generally showing a fair improvement.

ACID OILS.—At about unchanged values on the week this market stands very firm; coconut, 34s.; palm-kernel, 34s.; groundiut, 33s.; business has been good. Caston OIL is now quite firm, but still rather quiet; pharmaceutical, 53s.; first pressings, 48s.; second pressings, 46s.; January to April delivery at 51s., 46s. and 44s. respectively, in not less than one ton lots. Coconut Oil.—Fair business continues, with rates fully maintained; deodorised, 44s.; Ceylon, 39s.; Cochin, 44s. Cottonseed Oil.—Deodorised, is slightly cheaper at 44s., and soapmaking has dropped to 39s.; common edible at 42s. and crude at 36s. are unchanged; market is new courte at all crude at 36s. are unchanged; market is now quote steady. GROUNDNUT OIL.—A better tone now prevails, and at unchanged rates business has improved. Deodorised, 51s. 6d.; crude Oriental, 43s. Palm-Kernel Oil.—Crude is a shade cheaper at 35s., with deodorised well-maintained at about 42s. Palm Oil.—During the last week quite good business has been done, and an active market marked the close to-day; Lagos has advanced to as high as 34s. 6d.; "softs" are firm at the better price of 33s. 6d.; hards have gone to the remarkable figure of 34s. 6d., which makes them equal to Lagos when the general position is below "softs." RAPE OIL.—At unchanged rates the market is steady but dull; refined, 47s.; crude, 43s. SOYA BEAN OIL.—There has been much better business, and at unchanged rates the market is firmer; deodorised, 42s. 6d.; crude Criental c.i.f., 36s. LINSEED OIL.—The home trade demand having been anything but vigorous, the market in spot delivery has had lately a slightly reactionary tendency, while the feeling in forward positions is inclined to be easy. The advices about the Indian and River Plate crop situation are entirely satisfactory, while the harvest in the Argentina recently commenced under favourable conditions. The shipments have shown improvement, but the quantities affoat to this country are still abnormally small. Crushers, however, are moving very cautiously in covering their needs. The spot market for naked raw oil closes lower at 37s. 6d.: November-December is 34s. 6d., and January-April 31s. 4½d. per cwt. Turpentine.—The fact that April 31s. $4\frac{1}{2}$ d. per cwt. the trade demand has been more restricted tended to help the recent easier tendency in the absence of any important speculative interest pending further developments in the American situation. At the lower level, however, the undertone seems steadier. The London market closes at 118s. per cwt., which is about 5s. lower on the week.

German Chemical and Drug

The introductory remarks to the market report, dated November 1, issued by a leading Hamburg wholesale drug house, are devoted to lamentations about the catastrophic fall in the value of the mark, one consequence of which is declared to be the complete bankruptcy of the socialistic theories and experiments. The following quotations are in marks, per kilo, unless otherwise indicated:—

BALSAM PERU.—Genuine original has been neglected at the higher price of \$4 per kilo. Ph.G. V. is in brisk demand for the home market and also for export at m. 4,000;

for export 5s, per kilo.

Benzaldehyde, almost free from chlorine, for foodstuffs, has been advanced by manufacturers. A recently established factory is endeavouring to repudiate its contracts for deliveries, causing a rise in price. Offered at m. 1,400; for export prices on application.

Buckthon Bark.—Speculative purchases by foreign buyers have caused the price to advance to m. 425 for whole and to m. 450 for cut. The price for export is francs 4.

CAFFEINE (PURE) has advanced to m. 25,000; for export m. 30,000.

CALAMUS ROOT.—Natural has advanced to m. 150.
CITRIC ACID has been neglected at m. 3,900, for export m. 3,800.

COUMARIN. - Manufacturers have again advanced the price, and it now fetches m. 15,000; price for export on application.

CREAM OF TARTAR.—Manufacturers have advanced the price, now quoted m. 1,500; price for export on application.

ELDER FLOWERS (SAMBUCUS) offered at m. 750; for export the price is French francs 5.

FENNEL.-Levantine fennel has been exported in large amounts at French francs 350 per 100 kilos.

GLYCERIN (28° Bé).—Chemically pure is quoted m. 1,500; for export m. 1,800, exclusive of containers.

HELIOTROPIN is in. 8,500 for home use.

MENTHOL has advanced, and is now firm; offered cheaply at 30s, per lb. on orders of a case or more and 33s, per lb. for broken bulk,

MILK SUGAR.—The repeated advances in milk have resulted in raising the price of milk sugar, which continues to be in brisk demand. Owing to the decreased supply of milk during the coming months, higher prices may be confidently expected.

QUILLAIA has advanced to m. 600 for cut. For export it is quoted £30 10s. per ton, and whole £30 per ton,

Salicylic acid is offered for export at Belgian francs 8.50. Santonin continues to be scarce, and we are buyers for delivery in Germany. For export the price is £80 per kilo.

TARTARIC ACID.—Manufacturers quote now only in Dutch currency. Offered at m. 2,150 for crystals and m. 2,200 for powder; for export the price is fl. 1.50 for crystals and powder.

Vanillin is offered cheaply at m. 43,000 for home use.

WORMSEED (GENUINE).—Large transactions, particularly for export, have taken place at the rate of 22s, per kilo.

Italian Drug and Chemical Markets

GENOA, October 31.

THE Italian lira rose sharply during October, bringing the English pound sterling from lire 104 to lire 114, and the United States dollar from lire 24 to lire 26. Such conditions broads it little above. brought little change in the drug and chemical markets, stronght fittle change in the drug and chemical markets, very tew products being increased in price and few reduced. Some contracts for caustic soda, carbonate of soda and silicate of soda to be delivered during the next few months were noted, despite the present upset political conditions caused through the fall of the Ministry. Some of the approximate prices per kilo (except where otherwise stated) were as follows on the Genoa market:—

were as removes on the denot	market.
Lire,	Lire,
Acetylsalicylic acid 45 to 55	Morphine hydroehl, 2,000 to 2,500
Amidopyrin 200 to 225	Opium 10%, Smyrna 120 to 140
Ammonium bromide 12 to 14	Phenacetin 120 to 150
Antipyrine 120 to 130	Potass, brom, cryst, 9 to 10
Benzonaphthol 120 to 130	Potass, iodide 180 to 200
Boric acid, crystals	Potass, sulphoguaiac, 120 to 140
and powder 790 to 800	Quinine hydrochlor, 600 to 625
Boric acid, flakes 800 to 820	Quinine sulphate
Caffeine, pure 180 to 200	and bisulphate 500 to 525
Calcium glycero-	Resorcin 65 to 75
phosph 50 to 60	Salicylic acid 12 to 14
Camphor, Japanese 50 to 55	Salol 50 to 60
Castor oil, medicinal 7,50 to 8,5)	Sodium benzoate 14 to 16
Chamomiles 8 to 10	Sodium bicarb.(ton) 180 to 190
Chloral hydrate 40 to 45	Sodium bromide 11 to 12
Chloroform 16 to 18	Sodium glycero-
Citric acid, crystals 19.50 to 20	phosphate 25 to 30
Cocaine hydrochlor, 2,200 to 2,500	Sodium methylar-
Codeine, pure 3,000 to 3,500	senate 250 to 260
Creosote, wood 40 to 50	Sodium salicylate 18 to 20
Guaiacol carb 160 to 180	Strychnine nitrate 1,100 to 1,200
Guaiacol crystals 130 to 150	Tannic acid, leviss 40 to 50,50
Guaiacol pure 90 to 100	Tartarie acid, crys. 12.60 to 13
Hexamine 90 to 100	Tartaric acid, pwd. 12.70 to 13.10
Hydroquinone 40 to 50	Terpene hydrate 20 to 25
lodine, resublimed 215 to 220	Theobromine, pure 200 to 220
Linseed meal, pure 2.50 to 3	Thymol 200 to 225
Magnesia, calcined 8 to 10	Vanillin 340 to 380
Menthol 370 to 400	Vaseline 6.50 to 7.50
Methyl salicylate 28 to 30	Zine oxide 5 to 6
Milk-sugar crystals 17 to 18	•

Short Cotton Cop in America

RECENT figures indicate a scarcity of cotton before another is made, if the world's consumption continues on the same large scale as last year. The crop has deteriorated through August and September. The Government estimate on August and September. The Government estimate on September 1 was for 10,575,000 bales, not including linters, which bring the total to about 11,000,000 bales. With the September losses, the final yield may not be over 10,500,000 bales. Domestic consumption may be estimated to 100,000 bales. at 6,500,000 bales; exports last year were 6,122,000 bales, and foreign stocks were lower at the end of this year than and foreign stocks were lower at the end of this year than at the beginning. Domestic stocks at the beginning of this crop year were a little under 3,000,000 bales. The outlook is not encouraging for consumers, but quite good for the cotton-growing states. The price at this time is about 2d cents per bound, at which price a crop of 10,000,000 bales will bring about \$1,000,000,000, which is well above the average value of the cotton crop in past years.



Letters for this section should be written on one side of the p only. The writer may adopt an assumed name for purpose publication, but he must in all cases furnish his real name address to the Editor.

The Registered Druggists' Examination

We have received a number of letters regarding proposed abolition of the Registered Druggists' Examition and the constitution of the Committee appointed the last Council-meeting of the Pharmaceutical Society Ireland to consider the matter. The following are tracts from some of the letters :-

"The Committee's report may be forcasted as a reco mendation for a modified examination. The composit of the Committee indicates it, as three-fourths of members are already pledged to it. 'We want a mix Committee,' said Mr. Watson, but did he get it?' Flashlight (7/11).

"Are the legalised rights of the licentiates to usurped for the whims and fads of a few wild theoris The registered druggists clamoured for qualificati which was duly granted to them. Still dissatisfied, tl are now laying claim for higher qualification, which the hope to receive free, gratis and for nothing. Let us he there are still members of the Council sufficiently capa of seeing the futility of such preposterous claims a setting an example once and for all as will deter the ince of such wild-cat schemes.-Vigilance (6/11).

"Those of us who are old enough to remember t passing of the original Pharmacy Act in 1875 will reclect that the then Council decided to adopt only t grade of pharmaceutical chemist, although the Act ga them power to establish the grade of chemist and drugg on examination. Quite a number who were in chem and druggist establishments at that time qualified pharmaceutical chemists, and it was anticipated that t grade of chemist and druggist would die out. What w the result? Those who had not qualified gradually we into business, and in 15 years-1890-it became necessa to pass the Amended Act in order to give them leg status. What would be the result now if it is agreed abolish the grade of registered druggist? There are ma who would not go up for a modified examination, even it were granted. They would slip into business, and a few years the repetition of what occurred in 1890 wou probably take place. Is it not also a fact that many the registered druggists and unqualified assistants serv their apprenticeship to pharmaceutical chemists, but we too lazy or indifferent to study for the licence, and the apathy is to be rewarded with a modified examination? Lest We Forget (7/11).

The Romance of Medicine

SIR,—In the C. & D., November 4, under the abole heading, there is a report of an address given by Dr. Burnet to the S. W. Chemists' Association. The subject no doubt, would prove to be a very entertaining one, bit is difficult to fall in with Dr. Burnet's views of the subject of the subjec treatment of corns. He condemns the application of sa cylic collodion as being as useless as cutting with a knif My experience has convinced me that it has radically a permanently cured corns even of what might be called vicious nature. The surprising point, however, is to n his recommendation of going to bed for a few weeks the best treatment for such an ordinary affliction. Mo of us, speaking paradoxically, have to earn our daily bres by the sweat of our brow, and if we are to retire to be for some weeks for such trivial ailments as corns I fee the tragic would be likely to supplant the romant element in a good many instances, and it is not general admitted that the calling of pharmacy has much roman to spare.-Yours faithfully,

Brondesbury, London, N.W.6.

SEPTIMUS WALGATE.

Applying for Situations

Your editorial article on "Applying for Situa-S comes at a very opportune moment, and should useful guide to assistants answering advertisetion fori the advertiser of a lot of unnecessary waste of relic rading through unsuitable replies. It is astonishnote the number of men who start off with a long ing ole concerning their family history and other de-n which the prospective employer is not interested, timately forgets to include in the letter the very required, such as salary or qualification. Another method, and a favourite one of recent years, is to the phrases as "passed Part I.," "qualified except e subject referred." Either the applicant is qualinot, so far as his capabilities in the pharmacy are ned. Some unqualified men are as good or better thi for fied some qualified men; and, again, others go out. met both varieties. But when an employer adveror a qualified assistant he does so with a definite, either he requires a man he can leave in charge he is temporarily absent, or he requires someone to ntend the dispensing department, and no matter lever the applicant may be, if he has not his certifi-te is not suitable for the position. In these days the y of assistants far exceeds the demand, and it is ary to be extremely concise, explicit, and, above all, ot in replying if the applicant wishes to stand any e. It is no use answering an advertisement in the e. It is no use answering an advertisement in the tement on the following Tuesday or Wednesday, the on is certain to be filled. Out of curiosity I have ed the number of insertions in this week's Suppleunder the retail columns, and I find there are en situations open and 107 wanted, almost exactly randidates for every berth, and then there must be a large number who answer without advertisements; in fact, several times recently I have had be coming into my pharmacy inquiring for vacancies. le coming into my pharmacy inquiring for vacancies, ng unheard of in pre-war days. At the same time resident of the Pharmaceutical Society at the recent c cil meeting mentioned that there are at present student associates, and he seemed to think it very factory. It may be so from the examination point ew, but after that it is merely adding to an already ssible situation. The Council would do well to note remarks of the Lord Provost, at the Dundee ersity College (C. & D., November 4, p. 624), on the offulness of there being openings for its graduates. e remarks applied to medicine and engineering, so there seems to be a surplus of entrants in most proons; perhaps some student of economics can enlighten s to the cause of this and the ultimate position.—s faithfully.

Wonderer (4/11).

R,—The article in the C. & D., November 4, p. 637, pplying for situations, is opportune. Our experience dentical with that referred to. Many cannot even to decently. The market is full of men who only ted half their apprenticeship when they joined the ay and were then assisted to qualify, with the result they all want to be managers at £5 a week. The ers are aged. What will become of those who have practical experience I do not know. May I suggest tyou supply forms of application for situations in the way that law stationers supply forms for various all documents. These and apprenticeship indentures all be very useful to the trade.—Yours faithfully, Senex (4/11).

Prescriptions for "Dangerous" Drugs

ire,—The omission by doctors of the required details en ordering dangerous drugs is by no means confined the experience of "Xrayser II.," but appears to be ety general. The instances quoted could be equalled most pharmacists. Many doctors prefer to issue their n regulations, and entirely to ignore any statutory s; whilst as to the penalty imposed on the chemist, it es not affect the doctor, and is outside his province. It is such practitioner I had occasion to mention the matter was quite surprised to hear that the Dangerous Drugs thad come into force; "he had heard that such a

measure was contemplated, but, anyway, he should not bother about it." The only possible way to deal with such a man is to inform the customer that the script cannot be dispensed, as it is not in conformity with the Regulations. Slovenliness in prescribing is another cause of trouble, and I see that our old friend, tr. chlorof. et morph., has cropped up again, this time in Gloucostershire (C. & D., November 4, p. 641). We finally settled in this area some time ago that unless the prescriber actually added "B.P. 85" the new one was to be dispensed.—Yours, etc.,

Subscribers' Symposium

or interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas

The Major Examination

"Ph.C." (7/10) writes: From a perusal of your columns this week it would appear that there is a movement on foot engineered by individuals who have not attempted the Major examination to filch the title "Pharmaceutical Chemist," from those to whom it legally belongs. May I suggest to these gentlemen that if they really want this title they should acquire it in the usual manner at 17 Bloomsbury Square.

Dental Radiography

Dental radiography, as a routine practice, is becoming largely adopted by dentists. The writer lately had occasion to pay a visit to a suburban dentist with regard to an offending molar, and was advised to have a film taken: Result, abscess found, tooth removed, free 5s., and £1 ls. for the radiograph. The initial outlay is fairly heavy; but, in a good-class district, it would seem to pay for itself soon.

Legal Queries

Alpha (17/10).—A month's notice on either side is the custom of the drug trade where assistants are concerned, unless there is an agreement to the contrary.

- C. A. C. (24/10).—It is necessary for wholesalers to take separate licences for each class of "dangerous" drugs they wish to deal in. You cannot deal in pulv. opii with a morphine licence.
- A. B. (1/11) asks whether an unqualified assistant, who receives a salary of £4 a week, comes within the Unemployment Insurance scheme. [As the assistant's salary does not exceed £250 a year, he must be insured.]
- W. S. (12/10).—A headache powder consisting of a pure drug is exempt from medicine stamp duty when sold by a chemist or by a person holding a patent medicine licence, If the powder consists of more than one ingredient it is liable to duty if recommended for an ailment and if proprietary rights are claimed for it. It does not make any difference as to the way the powders are packed; if in an "enclosure" they become liable.
- H. H. W. (24/10).—There is nothing to prevent your taking an apprentice and teaching him pharmacy. That part of the apprenticeship which is served before registration will not count as part of the curriculum recuired for the Qualifying examination, nor will the part that is served with a person who is not a registered chemist and druggist. Registration as an apprentice cannot be made until a suitable preliminary examination has been passed.

Vectis (30/10) bought a plot of freehold land of which he holds the title deeds. He has since erected a house on the plot, and asks what document of title, if any, in respect of the house he will have to furnish in the event of his selling the house and land.—[No separate evidence of ownership of the house will have to be produced, as a conveyance of the land and the handing over of the title deeds will also transfer any buildings upon the land.]

B. B. (2/11), while empolyed as a chemist's assistant and dispenser, at a salary of £3 10s, per week, was insured under the Unemployment Insurance Act, 1920, paying his contributions regularly until August 12 last, when his

employment ceased. For eight weeks from August 14 he was paid his full unemployment benefit, and during the past three weeks he has held a position as locum tenens. The local unemployment committee now refuses to pay him any more benefit, stating that as an assistant and dispenser he is not entitled to any benefit under the Act. Is this correct? [A chemist's assistant and dispenser is insurable under and entitled to the benefit of the Act. The reason for the committee's refusal to pay "B. B." any more benefit is that he is no longer unemployed. He has evidently misunderstood the position.]

Etinameloc (4/11).—The business of a deceased chemist is being carried on by trustees for the benefit of his widow and children, to whom the profits are paid. One of the daughters, in addition to receiving her share of the profits (exceeding £26 a year), is employed in the shop, for which she is paid a salary (less than £250 a year). Is the daughter liable to be insured under the National Health and Unemployment Insurance schemes? [It appears that the daughter is not a partner in the business, and she must therefore be insured under both schemes, unless she is successful in obtaining exemption upon the ground that she has an independent income exceeding £26 a year. She can apply for exemption in each case upon the appropriate form; but even if she is exempted the employer's contri-butions will have to be paid in respect of her by the trustees.]

T. W. E. (5/11) refers to the C. & D. Diary for 1922, in which it is stated that an unmarried man who maintains his widowed mother is entitled to an abatement of £45, and he asks if this is so, as the allowance made to him on account of his widowed mother, whom he keeps, is only £25. There are no children to be looked after. [The Diary is quite correct. But the allowance of £45] is only made where the widowed mother is kept by her unmarried son for the purpose of having the charge and care of any brother or sister of his, who is a child in respect of whom a deduction is allowed under the Income Tax Acts. In "T. W. E.'s" case the allowance of £25 is made under a wholly different section—that section dealing with relatives who are kept because they are dependent.]

Spiritus (69/34) writes in reference to his income-tax inquiry in the C. & D., October 9. He says that the figures of assessment and charge adopted by the authorities do not agree with those in the reply to his inquiry, and he asks for an explanation. He also wishes to know how far he ought to go to meet the demand of the Inspector for the increased sums for income tax and excess profits duty. [The discrepancies between the figures given in our reply and those of the Inspector are due chiefly to (1) the fact that nothing was said in the inquiry about the fact that the net income included for the years 1915/16, 1916/17, 1917/18, 1918/19 and 1919/20 a sum representing a charge of some kind on property owned by "Spiritus" (income tax would, of course be payable upon this at the (income tax would, of course, be payable upon this at the higher and not the lower rate); (2) the income of the business turns out to have been £250 for the year before the business was taken over, not £300 as assumed in the absence of figures; and (3) the Inspector's figures of income for the years 1920/21 and 1921/22 are materially in excess of those given in the original inquiry. Whether the Inspector's statement of income is or is not accurate, it would be impossible for anyone to say without having access to the books and accounts of the business. If "Spiritus" disagrees with the Inspector's assessment of income, the proper course would have been to appeal against it. If the Inspector's figures for income are accurate, the tax worked out on them is correct, except that the allowance for children in the year 1921/22 ought to be £63 and not £35: that is, assuming the second child was born before April 6, 1921. As to the excess profits duty, as this was worked out on an assumed pre-war standard of profits of £300, it necessarily differs from that of the Inspector, which was worked on the pre-war standard of £250. There is, however, an error in the Inspector's the Inspector's statement of income is or is not accurate, of £250. There is, however, an error in the Inspector's figures. and the total sum due should be, for income tax £397 13s. 1d., for excess profits duty £132, or in all £529 13s. 1d.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to the origin, what they are, what they are used for and how. We do undertake to analyse and report upon proprietary articles nor publish supposed formulas for them.

H. B. B. (17/10).—Anti-steaming preparations usually a mixture of soap and glycerin.

S. P. (3/11).—The prescription is priced as follow

				d.
Cocain. hydrochlor.	• • •	•••	gr. XL.	48.00
Ung. aquæ rosæ	• • •		ziv.	37.00
Container	• • •	•••		11.00
Dispensing oncost	•••	•••		9.00
				105.00

Charge, 8s. 9d.

It is legitimate to add to the above 5 per cent. I quarterly account, making your price of 9s. 3d. qu a fair one.

Agricola (1/11).—Prescription pricing.—The prici of the prescription on the C. & D. costing system is follows

LO W B .		u.
Pot. bicarb	 5xiii. gr. xx	. 3.5
Pot. bromid	 3xiii. gr. xx	. 4.5
Spt. ammon. aromat	 5vj. m40	5.5
Spt. chlorof	 5xiii. m20	13.5
Inf. gent. co. conc. (1-7)	 Зх.	26.0
Aq. ad	 ξxl.	8.0
* Container		8.0
Dispensing oncost		12.0
1 0		
		81.0

Charge 6s. 9d., or, excluding container, 6s. 1d. The pri you mention is not remunerative.

M. M. (24/10).—We take it that "syrupus tres" the equivalent of syrupus triplex, which in London refe to equal parts of Easton's, Fellows' and Parrish's syrup The Edinburgh usage is to employ two parts of Parrish syrup to one each of Easton's and Fellows' syrups. either case the mixture would be pink.

F. E. C. (23/10).—MILDEW STAINS are readily remove from linen by means of chlorinated lime, but some e periments would be needed to find out the effect th chemical has on coloured cloths.

Retrospect of Fifty Years Ag

Reprinted from "The Chemist and Druggist," November 15, 1872

Signs of the Times

Something like a shudder seems to have run through the Pharmaccutical Council last week when Mr. Hampson proposed a lady for membership of the Society. It was not that this one lady in particular inspired terror, but it were the dismal visions which her application conjured up the minds of several of the councillors. Mr. Sandford pitured a lady councillor, and even a lady president, and M Betty ingeniously alluded to Miss Jex Blake as to a bog of most frightful dimensions. Mr. Brown and Mr. Savat intimated that they should vote against the admission this lady on the ground that she was a hospital dispense and was not in business on her own account. This reaso this lady on the ground that she was a distribution and was not in business on her own account. This reason and was not in intelligible and proper. But the and was not in business on her own account. This reaso of course, is quite intelligible and proper. . . . But it trade is unquestionably open for ladies if they choose enter it, and there are certain signs of an organised conspiracy among them. One is attending the pharmaceutic lectures, and in our advertisement columns this month where the announcement of a young lady requiring situation. It is quite pleasing to notice how cordially the medical press has supported this movement, and the support is all the more agreeable, coming so close upout their fiercely conscientious abuse of ladies who would enter the medical profession. Their ancient example will not affect us however, and confident as we are that an intelligent lady might make a very good dispensing chemist, however, and the support is membership, we shall not be sorry to see the movement extend and prosper. not be sorry to see the movement extend and prosper.

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Sugar-coated Quinine Tablets and Pills.

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For the successful treatment of Anæmia and allied conditions, it is now generally recognised that Iron must be administered in Large Doses, and not in small doses as hitherto. meet this requirement

Idozan

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Idozan is a preparation by which large doses of assimilable Iron can be prescribed with the knowledge that it will not cause constipation, nor have any irritating effect on the stomach. It has a sweetish aromatic flavour and is entirely free from any astringent inky taste. It does not harm the teeth.

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LONDON, E.5. vorks while you sleep



size. 5 oz.	Trial	 	 •••	M.R.P. 2 /-		M.W.P. 18/-
$10\frac{1}{2}$;,	Small	 	 	3/-		27/-
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Prices for IRELAND, CHANNEL ISLANDS, ISLE OF MAN: Less value of stamps, Wholesale and Retail.

For best terms, carriage paid, write to the Sole Agent-

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THE GREAT NERVE FOOD AND FLESH BUILDER.

IRVONA is obtainable from all the usual wholesale houses, or direct, at the following prices—3/- size, 27/- per dozen.

15/- " 135/- "

"IRVOLAX" (the safe aperient).

12/- per doz. 1/3 size

3/- ,, (four times the quantity) 27/-

MOLVENE

(the safe flesh reducer).

3/- packet ... 29/- per doz.

Terms Net 30 days, subject to usual trade references. For orders under 27/- in value cash with order.

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A Sure Profit of 20°/.

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It is backed by an extensive advertising campaign. Urodonal is in every home—it has a constant demand. Urodonal stands for clear profits—are you getting your share of these?

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WE are now prepared to supply the following goods of our own collection at very low prices. Quality guaranteed.

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ALL SIZES

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" AI OC" LIQUORICE JUICE

Supreme Quality—Reasonable Price STICKS OF ALL USUAL SIZES.



In order to maintain the highest standard of Purity, samples of this Juice are periodically submitted to Mr. Ernest J. Parry, B.Sc., F.I.C., R.C.S., London, for analysis. Buyers may submit samples for analysis of any shipment they may receive at makers' expense.

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Supply the Goods—We send you the Customers."

HIS reads fair, and, we are happy to say, is acted on by 8 out of every 10 retailers. It's the remaining two we are out to bring in. Perhaps if we remind them that P.A.T.A. profits are assured to sem and just a bottle or two of each size (1/3 and 3/-) is all we ask sem to stock and renew as sold, they will enable us to justify our onstant message to the Public, 'YOUR CHEMIST STOCKS 'ODDS ON' INIMENT.' By the time we have convinced our customers that e (or she) needs "ODDS ON" he is determined to get it, and it's bad business on your part to SEND him to your RIVAL for it.

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GLASGOW RECORD,

GLASGOW EVENING

16,000,000

buying Britons are reading "Odds On" selling-talk Every Week!

Whether you buy "ODDS ON" direct or through your Wholesaler we shall be pleased to send you a parcel of display material on receipt of p.c. requesting same.

order to secure and MAINTAIN the co-operation of the Retailers in furthering less and displaying advertising materials, we offer a PERMANENT bonus of 13 articles the dozen; any size, for direct orders value (assorted) £3 and over. Our only ipulation is that a display is made after receipt of each consignment.

Send a postcard to-night for full particulars to Dept. P,

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BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size 10s. 6d. per doz. net. 3s. 0d. " 26s. 6d. 5s. 0d. new size, contains double 50s. 0d. the quantity of 3s. box.

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Minimum quantity £5 value.

CASH WITH ORDER. Packages FREE. Carriage PAID.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ld, St. Helens."

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Patented in U.S. and Foreign Countries.

Ergoapiol (Smith) is now identified by the letters M.H.S. in the gelatin on the inside of each capsule. These letters are not visible from the outside, but they are plainly discernible in the gelatin when the capsule is cut in half.

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Dr. Bengué's Ethyl Chloride for Local and General Anaesthesia in Glass and Metal tubes.

Large selection of tubes.

Anestile for Local Anaesthesia. Narcotile for General Anaesthesia. Methyl Chloride.

Ask for Special Terms and Showcards for Dr. Bengue's Balsam.

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LIOUID BARKOLA COMPOUND

The Well-known Specific for Rheumatism has been on Sale continuously in Great Britain for over 30 Years.

Wholesale 30/- per doz. Retail 3/-

Each bottle (1-oz.) carries instructions to the Chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1-oz.; Tincture of Gentian, 1-oz.; Syrup of Rhubarb, 1-oz.; Syrup of Ginger, 5-oz.

Chemists charge according to their own scale for dispensing.

THE BARKOLA CO., Ltd., 42 Great Dover Street, London, S.E.1

IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD. 182 Gray's Inn Road - - LONDON SOLE CONSIGNEES.



BEWARE OF A COLD

IT IS AN INSIDIOUS THING AND SHOULD BE TACKLED AT ONCE

NEGLECTED COLDS LEAD TO DANGEROUS DISEASES.

THEY LOWER THE VITALITY AND INVITE ILLNESS.

INSURE AGAINST ALL DANGER WITH

INPHOS THE GREAT TONIC.

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BONUS ORDER No. 2

£ Sells for 3 doz. 1/3 "QUINPHOS" 1 14 6 @ 11/6 @ 27/6 1 16 Bonus £3 0 £4 12 5% 1 month 3 £2 18 10

Outlay £2.18.10 Profit £1.13.5

Advertising Matter for Window Display included.

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Kay's 'LINSEED COMPOUND'

Compound Essence of Linseed

Kay's MOUNTAIN FLAX PILLS

'Linum Catharticum

'Kay's TIC PILLS'

'Kay's THROAT LOZENGES'

Purchased in convenient quantities from any Wholesaler they carry a clear protected (P.A.T.A.) 25% on turnover (33\frac{1}{3}\%) on cost). Their real merit—backed by shrewd advertising tising - ensures a steady evergrowing sale.

Sole Proprietors:

KAY BROTHERS LTD. STOCKPORT

(Ext. Thymi Saccharat) Taeschner. For WHOOPING COUGH, Asthma, Catarrh of the Larynx, and BRONCHIAL CATARRH.

Dr. Gallus Bauer (Heart Specialist), Bad Nauheim. (Ungt. Menthol, Nicotin, Camphor Monobrom, Castor, Valerian, Crathaeg Oxyacanth, Spirit Sinapis Comp.) A new heart sedative for external use.

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NURSE HARVEY'S MIXTURE

safe, simple, and reliable remedy for Children's

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

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OSCAR SCRUTON & CO., YORK

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LINSEED OIL. TURPENTINE.

FINE OLIVE OILS.

LIQUID PARAFFIN. CASTOR OIL.

CHEMICALS. DRYSALTERY.

PETROLEUM JELLY.

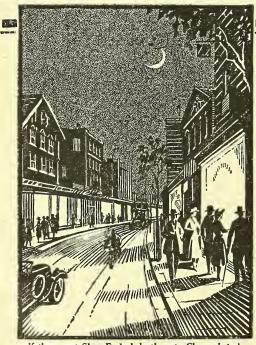
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PRICES ON APPLICATION.

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TELEGRAMS.



Make your Window Work Overtime!

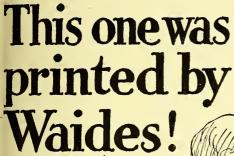
Your window can be your best Advertisement-keep it in action when doors are closed, but streets still thronged with possible buyers.

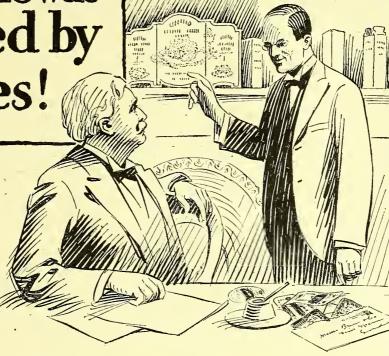
After dusk a well-lighted window will enhance the prestige of your Business, add to the popularity of the thoroughfare, and bring to your counter buyers whose selection is already made.

Electric Light can be turned on or off at any hour by a Clock Switch without any trouble to you.

ELECTRICITY will make the window pay its Rent.

E.D.A.







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LABELS . . . CARTONS . . . SHOW CARDS ENVELOPES . . BAGS

WRAPPERS . . WINDOW BILLS

EVERY DESCRIPTION
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Before placing your next order for Printing there are three points well worth your consideration:

Are you getting value for your money?

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Does Good Printed Matter Pay?

①. Our Printing is reputably the finest that long experience and modern methods can produce, and our charges are keenly competitive. When you need an intelligent interpretation of your Printing orders, COME TO US.

LET US ESTIMATE FOR YOUR NEXT ORDER.

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Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD. LIVERPOOL - LONDON - MANCHESTER - LEEDS.

PETROLEUM JELLY.

Gough, Kidston & Co.

Chemical Manufacturers,
Tanning & Dyewood Materials & Extracts,
Gum & Wax Merchants,

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CLOUDY AMMONIA

goes one better than ordinary ammonia in quality—and profit. Recommend it and reap that benefit.

We do not put the label on until the quality is there.

All experienced buyers know that the name of Sutton stands for trustworthiness, uniform high quality, and absolute purity.

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GENUINE RUSSIAN LIQUID PARAFFIN

ALL GRAVITIES, HIGHEST VISCOSITIES.

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WHITE AND AMBER.

B.P.
1914
FINEST
QUALITIES.
COMPETITIVE
PRICES.

"JASMINE WHITE OILS CHEM. PURE, WATER-WHITE, TASTELESS, ODOURLESS.

FOR MANUFACTURING PURPOSES.

LUBRICATING OILS FOR ALL PURPOSES.

THE PURE RUSSIAN LIQUID PARAFFIN CO., LTD.

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Actual Refiners and Manufacturers at their works near London.

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Telegrams: Champagne Manchester." ESTABLISHED 1855.

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Liebig's Beef & Malt Wine

English Port Style

British and Foreign Wines of all varieties

Bottles and Casks.

Specially low-cut prices for the Autumn 1922.

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WRITE TO-DAY AND COMPARE OUR TERMS.

"Less than Pre-War Prices."

"TOOTH'S" RACT of MEAT

As used in the Military and other Hospitals.

1 oz. Jars			6/6 per doz.
2 ,, ,,	•••	• • •	11/3 ,, ,,
4 ,, ,, 8 ,, ,,		• • • • •	20/- ,, ,,
16 ,, ,,		• • • •	38/- ,, ,, 70/- ,, ,,
5 lb. Tins		•••	23/- each.

Samples and Discounts on application.

"TOOTH'S" Liebig's Extract of Meat is the oldest brand of Meat Extract on the market, having been introduced in 1865. It can always be relied upon for the highest standard of quality, whilst its agreeable flavour and pleasant aroma added to its easy digestibility render it specially suitable for invalids T.L.E.M. is stocked by the leading wholesalers

Tooth's Extract of Meat Co.

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ALL CHEMISTS SHOULD STOCK

THE GOLD MEDAL FRUIT DRINK.

Outck Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral
Waters. The Original and only genuine Fruit Drink.
Reduced Prize List can be had on application.

DUNCAN McGLASHAM, LTD., ABDINE WORKS, WESTFIELD ROAD, EDINBURGN.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c. We also supply

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E. WINTER & CO., LTD., Head Office: 64 Cheapside, London, E.C.2. Telephone: Central 1985 Kellougs

necessity and should be eaten daily. It naturally and permanently relieves constipation.

Prices and samples from:

NKKellogg

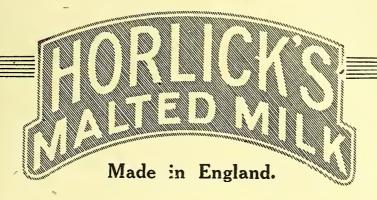
S. D. SIMOND & CO., LTD., 10 MONUMENT ST., LONDON, E.C.3, ENGLAND.

ATKINSON & BARKER'S

SAFEST INFANTS' MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd. 13 Wesley St., C.-on-M., MANCHESTER.

POISON.



The Sale of Horlick's Malted Milk is and always has been directed through Chemists, while substitutes and imitations are often exploited through other Trades.

You may with entire confidence recommend HORLICK'S MALTED MILK

—The Original—to your Customers.

Meat and drink in one—a delicious and sustaining Food-Drink which advantageously replaces tea, coffee & other beverages and is an admirable refresher, suitable for all ages.

It is the safest diet for infants and invalids; being complete in itself and needing no additional milk, it overcomes the difficulties and dangers of a local milk supply

Attractive advertising material for Window Display and Counter Distribution free and carriage paid on application to the Company.

HORLICK'S MALTED MILK CO., SLOUGH, BUCKS, ENGLAND.



A Message



O many pharmacists have written to us—expressing the hope that we shall soon be able to protect the price of Glaxo, and ensure the pharmacist a reasonable profit—that we take this opportunity of stating our firm intention not only to protect the price of Glaxo, but also to guarantee the pharmacist a margin of not less than twenty per cent. on every tin he sells.

We also intend at intervals to offer to pharmacists bonus terms, the conditions of which will be disclosed later. bonus offers will be confined to the drug trade; and, as authorised wholesale distributors of Glaxo will keep us advised where every tin of Glaxo is sent, we shall not only effect the protection of the price, but the whole of the Glaxo business will gradually be directed to the pharmacist.

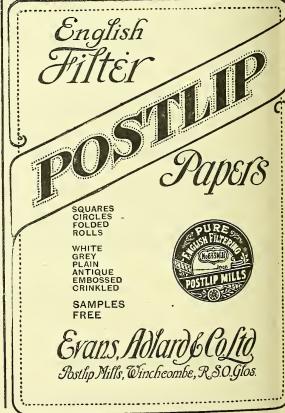
Supplies of Glaxo will only be available henceforth to wholesale dealers who agree to give us the necessary information to ensure the Glaxo Price Maintenance Scheme being enforced, and to withold supplies from "cutters.

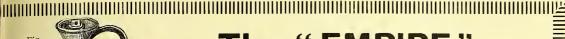
Any pharmacist who may experience difficulty in obtaining Glaxo through his usual source of supply need only communicate with us, and arrangements will at once be made to supply him on best terms through one of the Authorised Glaxo Distributors; or, if necessary, we shall be prepared to despatch goods direct.

Address all Communications to:

THE SALES MANAGER,
GLAXO HOUSE, 56, OSNABURGH STREET,
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The "EMPIRE" HOT WATER BOTTLES

Place your order now for present or future delivery, as prices will not go any lower than the following. Chemists who have built up a reputation for reliable Hot Water Bottles continue to order our well-known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

The Red Hot Water Bottles are selling well. The colour and finish appeal to anyone looking for a seasonable present. Each one of these is fitted with a spare washer.

PRICES as follows:—									
Heavy make	Sizes	6×8	6×10	6×12	8×10	8 × 12	8×14	10×12	110×14 in.
Grey rubber	each	3/5	3/9	4/1	4/5	4/9	5/3	5/6	6/0
Red rubber		3/8	4/0	4/4	4/8	5/0	5/6	5/6 5/9	6/6
Med rubber	Each Bottle in a strong paper bag with directions for use.								
	1			COVE	RS.				
	Sizes	. 6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Scarlet or grey pl	ush ea.	1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3
	Velour, assorted colours								
(washable)	each	1/3	1/5	1/7	1/9	1/10	2/-	2/3	2/6
(washable)	Cucii				al shape, 34	×7 in., each		2/0	. 2.0

For the Christmas trade we hold a large variety of

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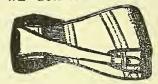
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42 CANNON ST. LONDON E.C. 4

NOVEMBER 11, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

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Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies—6/- for 50 words; every additional 10 words or

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ch case replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of I/- extra for each advertisement. Payment.

dvertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

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Will advertisers please note that until further notice it will be necessary that Advertisements

tended for the Supplement must us not later than the FIRST POST THURSDAY MORNING.

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-CITY (Within easy distance of).—Ready-money Businees; rns, about £2,500 per annum, under management; net fit about £700; double-fronted shop, well-fitted and stocked; i on lease at moderate rental; terms, valuation of stock and ures, and sum for goodwill to be arranged.

-WALHAM GREEN (Near)—Cash Drug Stores, returns

-WALHAM GREEN (Near).—Cash Drug Stores; returns, sent rate, £15 to £16 weekly under management, at good ces; single-fronted shop, fully stocked; small living accomdation; held on long lease; rent £48; price £600, or near tr.

.—LONDON, W.—Good-class Dispensing Business; returns put £10,000, at full prices; double-fronted shop, well-fitted I heavily stocked, new lease will be granted; further details receipt of banker's reference.

.—WESTERN SUBURB.—Cash Retail Business, capitally tuate in busy shopping thoroughfare; returns about £30 kely under indifferent management; scope for large developnt; about the value of stock and fixtures would be accepted.

'.-LONDON, E.C. City Pharmacy; very old-established; uate in one of the main City thoroughfares; gross receipts, out 25,500, increasing; new lease will be granted; offers vited.

8.—S.W. COAST (Near).—General Retail and Dispensing Business, with Optics; returns last year, £2,530: net profit, about 25 per cent; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained. entertained.

9.—SHEFFIELD (Near).—General Retail and Prescribing Business; returns last year, about £800, with scope for increase; single-fronted shop, fitted in mahogany and fully stocked; new lease will be granted; rent £33; price £750.

10.—NORTH OF ENGLAND.—General Retail Business, offering scope for extended trading under energetic management; returns, about £20 weekly; single-fronted shop, fitted in mahogany, and fully stocked; rent moderate; terms, valuation of stock and fixtures, about £650.

stock and fixtures, about £650.

11.—SOUTH WALES.—Old-established Business, with Wine and Spirit Licence; returns last year, £3,220, at good prices; house contains 10 large rooms; private entrance; 17 years lease; no opposition; price to be arranged.

12.—WHOLESALE BUSINESS.—Established upwards of a century; a number of Proprietaries are included, which are stocked by most Chemists in the kingdoms; returns have been over £6,000, now less; further details on application.

13.—LONDON, S.E.—Nucleus of 2 Manufacturing and Wholesale Chemist's Business; the turnover is at present small through want of attention, but the opportunity exists to create a good business; low rent; about £200 required.

14.—SOUTH LONDON.—General Retail and Dispensing Business; returns approach £5,000 per annum; single-fronted shop; ample living accommodation; price £2,250, or valuation terms entertained.

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2.—LONDON, E.—Cash Drug Stores, with some Shipping and Kodak Agency; returns £2,000; good opening for N.H.I.; low rent; lease granted; house attached; good unopposed position; price £1,100.

3.—LONDON (ESSEX).—Cash Retail, with very large panel; in unique position; returns £2,650; net profit, £750 to £800: very heavily stocked. Price, £2,250 cash.

4.—LONDON, S.W.—Cash Drug Stores, returning £15 to £16 weekly under poor management; can be doubled; no near opposition; low rent, long lease. Price, £550.

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IMMEDIATELY, in large town, a good sound business, returning not less than £3,000 a year, and capable of extension. Client waiting with £3,000 cash available; also a large number of buyers seeking smaller concerns in all parts

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2.-LONDON, W.—Family Retail and Dispensing Business; returns about £1,500, increasing; rent, £60 per annum, let off £90 per annum; total ingoing, about £1,400.

3.-WEST OF ENGLAND.—Small Tablet-making Business for disposal; excellent opportunity for small buyer; price, to include goodwill, extensive machinery plant, and stock, £400.

4.-PENRHIWCEIBER.—Small well-fitted Chemist's and Druggist's, with exceptional living accommodation; stock, £200; rent, £45 per annum; no reasonable offer refused.

5.-KENT.—Chemist's and Photographic Stores; rent £52; lease 4 years to run with probable option of renewal; returns £2,000 p.a.; net profits £450; stock about £400; price for lease, goodwill, fixtures and fittings, including 2 fully-equipped dark rooms, electric driers for prints and films, and other photographic apparatus, £1,200.

6.-LONDON, S.W.—Chemist's and Druggist's; unqualified management; rent £55; lease 20 years to run; let off £35 p.a.; premises also have sufficient accommodation for a purchaser living there in addition; returns £30 at 35%; stock £450; price, to include lease, goodwill, fixtures, fittings, utensils and stock, £1,000: no offers.

7.-YORKS.—Fully-equipped Chemist's Business for disposal; returns £1,500; rent, rates and taxes £150; stock about £750. For further particulars write as above.

8.-LONDON, N.—Chemist's Business; 14 years' lease; £63 per annum; returns, £20 a week, all ready money; price for lease, goodwill, fixtures, fittings, and utensils, stock, and to include new shop front, £850; good living accommodation; full particulars, apply

WANTED.—Genvine Chemist's and Druggist's Business: client wishes to invest £1,000; Business must offer fullest investigation. Enquiries, in first instance, as above.

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DUSINESS wanted, London district; good living modation; neglected one not objected to if scor increase. Full particulars, in confidence, 14/446, Office Paper.

B USINESS wanted, London, within two or three miles good living accommodation; neglected one not object if scope for increase. State particulars to 125/6, Office of

PHARMACIST requires a good, sound Business; I £3,000-£5,000 a year; capable of extension; cash able; must bear strict investigation; preferably Southar Bournemouth, Exeter, or Devonshire. Fullest particult strictest confidence. Replies sent to 124/34, Office of this

SOUND Business, capable of increase; London or near house preferred; Partnership in a larger business, of agement with succession entertained. Capital £1,000. A loffered for information of opening if acted npon. Full part in confidence to "Chemist," 108, Craven Park, N.W.10.

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GENTS wanted, buying or commission basis, with connection amongst chemists and leading stores, town and country; ive Oil and Castile Soaps of exceptional quality; repeats tain; numerous-accounts, including large London stores, eady opened. Reply "S. M.," 122/40, Office of this Paper.

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POR immediate Sale, close to South Wales, Chemist's Shop Fittings, Stock and every requisite necessary for opening business, including Specialities for agricultural purposes, and many valuable recipes included; fittings with wall glass cases, needs of drawers, etc., all in perfect condition. Apply in first instance to Smith Charley, House Agent, Blakeney, Gloucestershire.

PATENT Medicine.—The directors of limited company, owning high-class remedy, are prepared to sell, or to arrange with having organisation for sales; dominating interest may be obtained. Address Box 22, Trades Publicity Co., Standard Buildings, Leeds.

TOMS, LTD., Cash and Shipping Chemists, Swansea.—This sound and old-established Business for Sale. Sole reasons for disposal, terms of lease, and all particulars to bona-fide applicants with banker's references may be obtained from Charles Harvey, Esq., Chartered Accountant, Goat Street, Swansea. Possession may be had on December 25 prox.

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PHARMACIST, 26, married, seeks financial interest and Managership of established Business in Liverpool or district, with view to ultimate succession. Replies in strict confidence. Please write with detail. 126/8, Office of this Paper.

SITUATIONS OPEN.

[HOME.]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Anvertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

HAMPSHIRE.—Wanted, Junior for village business; unqualined; knowledge of Photography. 127/17, Office of this

LEEDS.—Qualified Branch Manager wanted end of this month for a Pharmacy in an industrial area; only competent, experienced men, who must be good Window-dressers, need apply; state salary. 124/29, Office of this Paper.

LONDON, N.W.6.-P. Davidson, Ph. Chemist, 342, High Road, Brondesbury, requires shortly a qualified Assistant with good-class experience; married; furnished house.

LONDON, S.E.—Vacancy for young, reliable, capable and accurate Chemist; Minor qualification for busy N.H.I. Dispensing and assist at counter. Apply, stating full experience, references (copies only) and salary, to "Chemist," 77, High Street, Croydon.

L ONDON, E.—Unqualified Manager for Drug Stores; workingclass neighbourhood; must be up-to-date Salesman, good Window-dresser essential. Apply, full particulars, experience, salary required, etc., to 126/370, Office of this Paper.

LONDON, E.—Qualified Manager for new business in market thoroughfare; quick, working-class trade; good Salesman, up-to-date Window-dresser necessary. Apply full particulars, experience, salary, etc., 126/37, Office of this Paper.

L ONDON, W.—Experienced qualified Assistant required; West-London, W.

LONDON.—Assistant required; must be a good Dispenser, accustomed to quick Counter trade, Window-dressing, and Photographic Sundries; age not over 30. Apply by letter, giving full particulars, to Parke's Drug Stores, Ltd., 65, Harmood Street, Chalk Farm, N.W.1.

MIDLANDS. — Busy manufacturing town. Unqualified Assistant; must be an excellent Counterman and Window-dresser; not afraid of work; permanency. 124/26, Office of this Paper.

NEAR ALDERSHOT.—Young lady, unqualified, required for counter and stock; knowledge of Photography an advantage; state references, salary, and when free to Booth, 85, Maybury Road, Woking.

NORTH-EAST.—Active man wanted to assist in developing well-established business in busy town; one able to invest preferred. Apply, giving full particulars, age, experience, amount to invest, 118/26, Office of this Paper.

COUTHSEA.—Qualified Assistant wanted to take charge of hranch shop; must have good references, smart address essential, and good Salesman; state age; salary £4. Write 124/35, Office of this Paper.

WEST RIDING, YORKSHIRE.—Capable qualified Chemist required to take charge of branch pharmacy in centre of a busy town; one with Optical qualification preferred, hut not essential; give full particulars in first letter of past experience and salary expected to commence; commission will be paid on turnover. 124/38, Office of this Paper.

A SSISTANT wanted; must be trustworthy and accustomed to dispensing and counter work. Roberts, Chemist, Abergavenny.

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DEQUIRED, qualified Chemist, young and energetic, with good knowledge Appliance Fitting and preferably experience of Surgical Instruments. Apply 14/449, Office of this Paper.

TWO experienced unqualified Assistants required for London, W.; outdoors; must be good Countermen. Apply, giving full particulars of experience, to "Z.," 14/452, Office of this Paper.

WANTED, smart unqualified Assistant; good Counterman, Dispensing, and semi-wholesale; short hours; West End. Apply, "Aspirin" 125/8, Office of this Paper.

WANTED, a qualified Chemist to act as Assistant in mixed retail and wholesale husiness, with N.H.I. dispensing and seed trade. Duties to commence January 1, 1923. Apply, with references, etc., and salary, to Gibson, Chemist, Burton-on-Trent.

WANTED, Assistant, 18-25, for S.E. Coast; ontdoors; good all-round experience, and some Photography necessary. Apply, with full particulars and salary desired, to 127/2, Office of this Paper.

WHOLESALE.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Drug Traveller wanted. Any information this Paper. 14/443, Office of

A FIRM of Olive Oil Importers, selling at most competitive prices, wants Travellers calling on chemists for one or several firms who do not sell olive oil bottled, neither loose; good terms. For the provinces Buying Agency would be considered. Write "M. F.," 26, Elm Grove, London, W.6.

A RECO, LTD., require three first-class Outside Salesmen, Write or telephone for appointment, Hop 1551, 18, Southwark Street, S.E.1.

CAPABLE woman required to assist forewoman of a small packing room bandling proprictary food preparations; must be a good disciplinarian, and have had similar previous experience; S.W. district. Reply, in confidence, stating age, wages required, and full particulars of previous experience, to Box 14/451, Office of this Paper.

ENERGETIC Traveller required for London and district with established connection amongst Chemists, etc., to sell, on wages and commission, a high-class line of Tooth Paste, Compact Powders and Perfume. Reply, with full particulars, to 14/442, Office of this Paper.

PEPRESENTATIVE wanted for Druggists' Glassware to Manchester and district; old-established and well-known materials. Applicants, who must have good previous experiand wide Wholesale and Hospital connection, should apply letter to "Sundries," 14/444, Office of this Paper.

PEPRESENTATIVE wanted, calling on Chemists, for Longood commission terms; splendid selling aide line invalids and household use; must have established comand ahle to influence husiness. Apply first place, giving particulars, to 116/30, Office of this Paper.

REPRESENTATIVE (Assistant), young, for London and Stock Coast; Lozenge and Pastille house. Send full particle of age, experience, and salary required. "Menthol," 14 Office of this Paper.

REPRESENTATIVE required by old-established house to on Chemists, N.E. England; not less than 5 ft. 10 height, of good address and appearance; fidelity guara required; preference given to qualified man. Write, in fidence, to "Chemist," c/o F. Wilson, 101, Hatton Garden, E

PEPRESENTATIVE. — Required particularly well-educ young Pharmacist, preferably qualified, having had a stand superior training in Pharmacy, of good appearance pleasing manners, with energy, sales-making capabilities, dimination, and desire to excel. Applications, in confide Managing Director, Philip Harris & Co., Edmund St Birmingham.

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MOILET Soap.—Representatives required, with existing nection among Chemists in the Midlands, Eastern and So Eastern Counties. Apply Richard Wheen & Sons, Ltd., Soap London, S.E.3.

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UNQUALIFIED Assistant, preferably with Wholesale expence, for Manufacturing Chemists; must be quick, relial not afraid of work; hours 8.30 to 5.30, Saturday 1 o'cle State full particulars and salary. 125/9, Office of this Paper

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[Colonial, Indian and Foreign.]

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NCE.—Qualified for France, Biarritz, December 28 till ay 1, Gentleman with first-class experience and good dge of French; age 24 to 27. Write to Bailey, 37, Sunny-oad, Ealing, W.5.

S.—Assistant; good Prescriber and smart Salesman; aking French preferred. Send full particulars, with (to be returned), to C. Dumont, 4, Woodside Lane, N.12.

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A. -YOUNG, qualified Pharmacist requires per-Folkestone. E. A. Douglas, 12, St. John's Church

.A. -LOCUM or permanency; qualified; Manager or Assistant; 17 years' all-round experience; excel-ferences; disengaged. J. C. Harris, M.P.S., 47, Windsor Southall.

A.—EXPERIENCED Assistant; disengaged; competent Dispenser, Counterman, and Window r; good knowledge Photograpby; bighest references. W. M., Duke Street, St. Helens.

A -ASSISTANT; unqualified; 28; 12 years' experinotography; disengaged; London preferred. Apply to L. Z., 31, North Villas, Camden Square, N.W.

APABLE, trustworthy, efficient though unqualified man, lesires a post where good work and attention to business e appreciated; age 28; Scotsman; highest references; dised. Apply, stating salary, etc., Forbes, 190, Cowick Road, g, S.W.17.

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UALIFIED Pharmacist; 6 years' Dispensing and Counter experience, tall, willing, excellent references. Banks, 112, and Road, Hove.

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WANTED.

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- FIVE CARBOYS, small, about 2 ft. in height. Booth, 85, Maybury Road, Woking.
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- PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41, Voltaire Road, Clapham.
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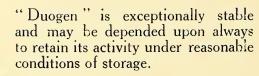


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